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FIGURE 528

MKFISTSLLLMLLVSSLSPVQGVLEVYYTSLRCRCVQESSVFIPRRFIDRIQILPRGNGCPRKEIIVWKKKSIV
CVDPQAEWIQRMMEVLRKRSSSTLPVPVFKRKIP

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FIGURE 529

TAAGTGAAGGAGGAGCAATTGATTAATAGCTCGGCGAGGGGACTCACTGACTGTTATAATAACACTACACCAGCA
ACTCCTGGCTTCCCAGCAGCCGGAACACAGACAGGAGAGAGTCAGTGGCAAATAGACATTTTCTTATTTCTTAA
AAAACAGCAACTTGTGTTGCTACTTTTATTTCTGTTGATTTTTTTTTCTTGGTGTGTGTGGTGGTGTGTTTTAAGT
GTGGAGGGCAAAGGAGATACCATCCCAGGCTCAGTCCAACCCCTCTCCAAAACGGCTTTTCTGACACTCCAGGT
AGCGAGGGAGTTGGGTCTCCAGGTGTGCGAGGAGCAAAATGATGACCGCCAAGGCCGTAGACAAAATCCCAGTAA
CTCTCAGTGGTTTTGTGACCAGCTGTCTGACAACATCTACCCGGTGGAGGACCTCGCCGCCACGTGGTGACCA
TCTTTCCCAATGCCGAAGTGGGAGGCCCTTTGACCAGATGAACGGAGTGGCCGGAGATGGCATGATCAACATTG
ACATGACTGGAGAGAAGAGGTCGTTGGATCTCCATATCCCAGCAGCTTTGCTCCCGTCTCTGCACCTAGAAACC
AGACCTTCACTTACATGGGCAAGTCTCCATTGACCCTCAGTACCCTGGTGGCAGCTGCTACCCAGAAGGCATAA
TCAATATTGTGAGTGCAGGCATCTTGCAAGGGGTCACTTCCCCAGCTTCAACCACAGCCTCATCCAGCGTCACCT
CTGCCTCCCCCAACCCACTGGCCACAGGACCCCTGGGTGTGTGACCATGTCCAGACCCAGCCTGACCTGGACC
ACCTGTACTCTCCGCCACCGCCTCTCTCTCTTATTCTGGCTGTGACGAGACCTCTACCAGGACCCCTCTGCGT
TCCTGTACGAGCCACCACCTCCACCTCTCTCTCTGCGCTACCCACCACCTCTCTCTATCCATCCCCCAAGC
CAGCCACGGACCCAGGTCTCTTCCCAATGATCCAGACTATCTGGATTCTTTCCATCTCAGTGGCAGAGAGACC
TACATGGTACAGCTGGCCAGACCGTAAGCCCTTTCCCTGCCCAGTGGACACCCCTGCGGGTGGCCCTCCACTCA
CTCCACTCTCTACAATCCGTAACCTTTACCCTGGGGGGCCCCAGTGTGGGTGACCGGACAGGGGCCAGTGGAG
GCAGCGAGGGACCCCGCTGCCTGGTAGCAGCTCAGCAGCAGCAGCAGCCGCCGCCGCCGCCCTATAACCCAC
ACCACCTGCCACTGCGGCCCTTCTGAGGCCTCGCAAGTACCCCAACAGACCCAGCAAGACGCCGGTGCACGAGA
GGCCCTACCCGTGCCAGCAGAAGGCTGCGACCGCGGTTCTCCGCTCTGACGAGCTGACACGGCACATCCGAA
TCCACACTGGGCATAAGCCCTTCCAGTGTGCGATCTGCATGCGCAACTTCAGCCGAGTGACCACCTCACCACCC
ATATCCGCACCCACACCGGTGAGAAGCCCTTCGCTGTGACTACTGTGGCCGAAAGTTGCCCCGAGTGATGAGA
GGAAGCGCCACACCAAGATCCACCTGAGACAGAAAGAGCGGAAAGCAGTGCCCCCTCTGCATCGGTGCCAGCCC
CCTCTACAGCCTCTGCTCTGGGGCGTGCAGCTGGGGGTACCTGTGCAGCAGTAACAGCAGCAGTCTTGGCG
GAGGGCCGCTCGCCCTTGTCTCTCGGACCCGGACACCTTGAGATGAGACTCAGGCTGATACACCAGCTCCCA
AAGGTCCCGGAGGCCCTTTGTCCACTGGAGCTGCACAACAAACACTACCACCCCTTCTGTCCCTCTCTCCCTTT
GTTGGGCAAAGGCTTTGGTGGAGCTAGCACTGCCCCCTTTCCACCTAGAAGCAGGTCTTCTCTAAAACCTTAGCC
CATTCTAGTCTCTCTTAGGTGAGTTGACTATCAACCAAGGCAAAGGGGAGGCTCAGAAGGAGGTGGTGTGGGGA
TCCCCTGCCAAAGAGGGCTGAGGTCTGACCCTGCTTTAAAGGGTTGTTTACTAGGTTTTGCTACCCCACTTCCC
CTTATTTTGACCCATCACAGGTTTTTGACCCTGGATGTGAGAGTTGATCTAAGACGTTTTCTACAATAGGTTGGG
AGATGCTGATCCCTTCAAGTGGGACAGCAAAAAGACAAGCAAAACTGATGTGCACTTTATGGCTTGGGACTGAT
TTGGGGGACATTGTACAGTGAGTGAAGTATAGCCTTTATGCCACACTCTGTGGCCCTAAAATGGTGAATCAGAGC
ATATCTAGTTGTCTCAACCTTGAAGCAATATGTATTATATACTCAGAGAACAGAAGTGCAATGTGATGGGAGGA
ACGTAGCAATATCTGCTCCTTTTCGAGTTGTTTGAGAAATGTAGGCTATTTTTTTCAGTGTATATCCACTCAGATT
TTGTGTATTTTTGTATGTACCCACACTGTTCTCTAAATCTGAATCTTTGGGAAAAAATGTAAAGCATTATGATC
TCAGAGGTAACTTATTTAAGGGGATGTACATATTCTCTGAACTAGGATGCATGCAATTGTGTGGAGAGTGC
CTTGGTCGCTTGTGTGATGTAGACAAATGTTACAAGGCTGCATGTAAATGGGTGCCTTATTATGGAGAAAAA
ATCACTCCCTGAGTTTAGTATGGCTGTATATTTATGCCTATTAATATTGGAATTTTTTTAGAAAGTATATTTT
TGATGCTTTGTTTTGTGACTTAAAGTGTACCTTTGTAGTCAAATTCAGATAAGAATGTACATAATGTTACC
GGAGCTGATTTGTTTTGGTCATTAGCTCTTAATAGTTGTGAAAAATAAATCTATTCTAACGCAAAACCACTAAT
GAAGTTCAGATATAATGGATGTTTTGTGACTATAGTGTAATAAATACTTTTCAACAAT

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FIGURE 530

MMTAKAVDKIPVTLSGFVHQLSDNIYPVEDLAATSVTIFPNAELGGPFDQMNGVAGDGMINIDMTGEKRSLDLPY
PSSFAPVSAPRNQFTFTYMGKFSIDPQYPGASCYPEGIINIVSAGILQGVTSASTTASSSVTSASPNPLATGPLG
VCTMSQTQPDLDHLYSPPPPPPPYSGCAGDLYQDPSAFLSAATTSTSSSLAYPPPPSYSPKPADPGLFPMIPD
YPGFFPSQCQRD LHGTAGPDRKPFPCPLD LRVPPPLTFLSTIRNFTLGGPSAGVTGPGASGGSEGPRLPGSSSA
AAAAAAAAAYNPHHLPLRPILRPRKYFNRPSKTPVHERPYPCPAEGCDRRFSRSDLTRHIRIHTGHKPFQCRIC
MRNFSRSDHLTTHIRHTGEKPFACDYCGRKFARSDEKRRHTKIH LRQKERKSSAPSASVPAPSTASCSGGVQPG
GTLCSNSSLGGGPLAPCSSRTRTP

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FIGURE 531

GCCCAGGTGACTGACTAATCCGCCGCTTCAGGAGACAGAATTGGCCAAGGCCTGAAGGCCCCGGAGTGCACCAG
CGGCATGTACAAAGAGACCGTCTACTCCGCCCTTAATCTGCTCATGCATTACCCACCCCCCTCGGGAGCAGGGCA
GCACCCCCAGCCGCAGCCCCCGCTGCACAAGGCCAATCAGCCCCCCCACGGTGTCCCCAACTCTCTCTACGA
ACATTTCAACAGCCACATCCCACCCCTGCACCTGCGGACATCAGCCAGAAGCAAGTTCACAGGCCTCTGCAGAC
CCCTGACCTCTCTGGCTTCTACTCCCTGACCTCAGGCAGCATGGGGCAGCTCCCCCACTGTGAGCTGGTTTAC
CCACCCATCCTTGATGCTAGGTTCTGGTGTACCTGGTCACCCAGCAGCCATCCCCACCCGGCCATTGTGCCCC
CTCAGGGAAGCAGGAGCTGCAGCCCTTCGACCGCAACCTGAAGACACAAGCAGAGTCCAAGGCAGAGAAGGAGGC
CAAGAAGCCAACCATCAAGAAGCCCCCTCAATGCCCTTCATGTGTACATGAAGGAGATGAGAGCCAAGGTCATTGC
AGAGTGCACACTTAAGGAGAGCGCTGCCATCAACCAGATCCTGGGCCGCGAGGTGGCAGCGCTGTGCGGAGAAGA
GCAGGCCAAGTACTATGAGCTGGCCCGCAAGGAGAGGCAGCTGCACATGCAGCTATACCCAGGCTGGTCAGCGCG
GGACAACCTACGGGAAGAAGAAGAGGCGGTGAGGGAAAAGCACCAAGAATCCACCACAGACCTGGCTCGCCTAA
GAAATGCCGTGCTCGCTTTGGCCTCAACCAGCAGACGGATTGGTGTGGTCCGTGCAGATAAATCTCTTCACTATT
CCTAGGAGGAAAAAGAAATGCATTCCGGTACTTACCCGGAGAAGGCCGCTGCCCCAGCCCCGTCTCTCCGATGAC
AGTGCTCTAGGCTGCCCCGGGTCCCCAGCTCCCCAGGACTCACCTCATACCATCTGCTGCCCCGCTTCCCCACA
GAACTGCTTACTAGCCCTGCGGAGCGGCACCTACATCCCCAGGTCTCTCCACTGCTCTCAGCCTCCCAACCCAG
GGCCCCCACAGGCCCCCGCAGCACCCCTGCAGAGCACACAGGTACAGCAACAGGAATCTCAGAGACAGGTGGCCT
AGCAGGCACAGGACACCTGGCCGCTCCAGGAGCCTACCCCTGAAAATGACAGAGACCCAGATCTCATGGAAC
TGGCAGGGGTCTGTAAACGTCATCTCAGGGTCCAGACCCTGAAGATTTAGAGGCTGCAGAATCTGCTGAA
CCTGGGGTCATCGATTCAAATGCTCCAAGTGGTGGGAATCAGATCTGTCTTGATGTGTATCTAATTAAGGGAA
TCCCTTGTACCTATGACTCCGTGATCTATTCTTGTACCATCTGTCTTGCCAGCCAGAAGCCTCTGCTCCCTA
GCTTTTCTGCTATAGGTGAGAGATGGGCTGAATGAGCCTAGCTACCTTCTCTACCCATCTCCCCATCCCCAC
TGCCACACCCCTCCCCATTAGACACTTCATGGACCAAGAATGAGCTGGTTTGTCAACAACATGTGAGCATGGTC
ACAAGCACAAAGCTCAAGATGACAGCTCTTCTAAGGAAATGGAGAAGCTCTGTTTATAAAAACAAAAACAAACC
AGCTGCTACTCATAAGTTGGACCAGAGGAAGCCCTTACTATGATCTCAGGAGCTTGCAAGAAGCAGGAAGGGGA
ATGGAATAGGTTAAGTTTAGGCCATCAACCTAAGCAACAGAAATAATCTGACACTACCTTATCAGGCAAAATTGG
GGAGGGGAGGGTGTATCTAGCTCTAGTTCAAATTATTTGGAAGTGTCCCTGAGAAACCCACCAGCCTAAGAAGC
TCIGGCCCCAGGCTTGTCACTAGCAGCTGCAGTCAACAGTTCAAAGAAGTCATGGCCCAAATCCAGTGTGCACCC
CTCCCCATTACAGAGCCTTTTTTCACAATTCCATTTCAGTTCATCTATGGCAGTCCAGCCAGCTTCTGGGCAGC
TTGAGAGGGGCAAAACCCAAAACCTCATGACAGCCAGAGCCTGTCTTTCAGCATTTCAGTCGCCTGGGAAGCTCCAGT
TTCCCCATGGGGCTGCGGGACAGAGGACCATTAACCTAGATCAAGGAGCCAGAAAACCTCCAGTAGTGGACAA
CAGGTTTTACCATAGCCTACGTTAACCCATTTTGGAGCCAAGCTTCAACCCTCAGCCTTGAAAAACAAGTCTTT
AATTTAATTTTTGTTTTTGCCTAAATCCAAAGAAAAAGGGCTGCCGGGCCAGGCGCGGTCTGACCGCTGTAAT
CCCAGCACTTTGGCAGGCCGAGGCAGGTGGATCACCTGACGTGAGTAGTTTGAGACCAGCCTGGCCAAACATGGTG
AAACCCTGTATCTACTAAAAATACAAAAATTAGCCGGACGTGGTGGTGGCGCATGTAATCCAGCTACTCGGGA
GGCTGAGGCGGAAGAATCACTTGAACCCGGGAGGCGGAGGTTCCAGTGAGCCGAGATGGCGCTATTGCACTCCAG
TCTGGGTAACAGGGGAGCTGCATCTCAAAAAAAAAAAAAAAAAAAGGGCTGTCCATGTATTACACACCCCTC
AAAAAAGCCTTTAGTTCTTACTTTAGCCACTGGTTCTCAGAATCCAAAGATCACATATTCTAGTGTAACTG
CAAGAAGTCTTGAGAAAAAGATTATTGTAGTGTCAAAATATTTTGTATTGTTAATGCATCATAGAAAAAC
TTTTAAACATGAGAATAAAGATACTTTTACTGGGTTTGTTTTTCAAAGCCTGAAAAAA

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FIGURE 532

MYKETVYSAFNLLMHYPSPGAGQHPQPPLHKNQPPHGVFQLSLYEHFNSPHPTPAPADISQKQVHRPLQTP
DLSGFYSLTSGSMGQLPHTVSWFTHPSLMLGSGVPGHPAAIPHPAIVPPSGKQELQPFDRNLKTAESKAEKEAK
KPTIKKPLNAFMLYMKEMRAKVIAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARD
NYGKKKRRSREKHQESTTDPGSPKKCRARFGLNQOTDWCGPCR

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FIGURE 533A

ATGAACCTCTGAAAAC TGCCGGCATCTGAGGTTTCTCTCAAGGCCCTCTGAAGTGCAGCCCATATGAAGGTCTT
GGCGGCAGGAGTTGTGCCCTGCTGTTGGTTCTGCACTGGAAACATGGGGCGGGGAGCCCCCTCCCCATCACCCC
TGTC AACGCCACCTGTGCCATACGCCACCCATGTCAACAACCTCATGAACCAGATCAGGAGCCAACTGGCACA
GCTCAATGGCAGTGCCAATGCCCTCTTTATTCTCTATTACACAGCCAGGGGGAGCCGTTCCCCAACAACTGGA
CAAGCTATGTGGCCCCAACGTGACGGACTTCCCGCCCTTCCACGCCAACGGCACGGAGAAGGCCAAGCTGGTGGA
GCTGTACCGCATAGTCGTGTACCTTGGCACCTCCCTGGGCAACATCACCCGGGACCAGAAGATCCTCAACCCAG
TGCCCTCAGCCTCCACAGCAAGCTCAACGCCACCGCCGACATCCTGCGAGGCCCTCTTAGCAACGTGCTGTGCCG
CCTGTGCAGCAAGTACCACGTGGGCCATGTGGACGTGACCTACGGCCCTGACACCTCGGGTAAGGATGTCTTCCA
GAAGAAGAAGCTGGGCTGTCAACTCCTGGGGAAGTATAAGCAGATCATCGCCGTGTGGCCCAGGCCCTCTAGCA
GGAGGTCTTGAAGTGTGCTGTGAACCGAGGGATCTCAGGAGTTGGGTCCAGATGTGGGGGCTGTCCAAGGGTGG
CTGGGGCCCAGGCCATCGCTAAACCCAAATGGGGCTGTGTCAGACCCCGAGGGTGCCTGGCCAGTCCACTCCA
CTCTGGGCTGGGCTGTGATGAAGCTGAGCAGAGTGGAACTTCCATAGGGAGGGAGCTAGAAGAAGGTGCCCTT
CCTCTGGGAGATTGTGGACTGGGGAGCGTGGGCTGGACTTCTGCCTCTACTTGTCCCTTTGGCCCTTGTCTACT
TTGTGCAGTGAACAACTACACAAGTCATCTACAAGAGCCCTGACCACAGGGTGAGACAGCAGGGCCAGGGGAG
TGGACCAGCCCCAGCAAATTATCACCATCTGTGCCTTTGCTGCCCTTAGGTTGGGACTTAGGTTGGGCCAGAGG
GGCTAGGATCCCAAAGGACTCCTTGTCCCCTAGAAGTTTGATGAGTGGAAAGATAGAGAGGGGCTCTGGGATGGA
AGGCTGTCTTCTTTGAGGATGATCAGAGAACTTGGGCATAGGAACAATCTGGCAGAAGTTTCCAGAAGGAGGTC
ACTTGGCATTAGGCTCTTGGGGAGGCAGAGAAGCCACCTTCAGGCCTGGGAAGGAAGACACTGGGAGGAGGAGA
GGCCTGGAAGCTTTGGTAGGTTCTTCGTTCTCTTCCCGTGATCTCCCTGCAGCCTGGGATGGCCAGGGTCTG
ATGGCTGGACCTGCAGCAGGGGTTTGTGGAGGTGGGTAGGGCAGGGGCAGGTTGCTAAGTCAGGTGCAGAGGTTT
TGAGGGACCCAGGCTCTTCTCTGGGTAAAGGTCTGTAAGAAGGGGCTGGGGTAGCTCAGAGTAGCAGCTCACAT
CTGAGGCCCTGGGAGGTCTTGTGAGGTACACAGAGGTACTTGAGGGGGACTGGAGGCCGTCTCTGGTCCCCAGG
GCAAGGGAACAGCAGAAGCTTAGGGTCAGGGTCTCAGGGAACCCCTGAGCTCCAAGCGTGCTGTGCGTCTGACCTGG
CATGATTCTATTATTATTAIGATATCCTATTTATATTAACTTATTGGTGCTTTTCAAGTGGCCAAGTTAATTCCTT
TCCCTGGTCCCTACTCAACAAAATATGATGATGGCTCCCGACACAAGCGCCAGGGCCAGGGCTTAGCAGGGCCTG
GTCTGGAAGTCGACAAATGTTACAAGTGAATAAGCTTACGGGTGAAGCTCAGAGAAGGGTTCGATCTGAGAGAAT
GGGGAGGCCTGAGTGGGAGTGGGGGGCCTTGCTCCACCCCATCCCTACTGTGACTTGCTTTAGCGTGTACAGGG
TCCAGGCTGCAGGGGCTGGGCCAATTTGTGGAGAGGCCGGGTGCCTTTCTGTCTTGCTTCCAGGGGGCTGGTTCA
CACTGTCTTGGGCGCCCCAGCATTGTGTTGTGAGGCGCACTGTCTCTGGCAGATATTGTGCCCTTGGAGCAGT
GGGCAAGACAGTCCCTTGTGGCCACCCTGTCTTGTCTGTGTCCCATGTGCTCTGAAATAGCGCCCTGGA
ACAACCTGCCCTGCACCCAGCATGCTCCGACACAGCAGGGAAGCTCCTCCTGTGGCCCGGACACCCATAGACG
GTGCGGGGGGCTGGCTGGGCCAGACCCAGGAAGGTGGGGTAGACTGGGGGATCAGCTGCCATTGTCTCCAA
GAGGAGGAGAGGGAGGCTGCAGACGCTGGGACTCAGACCAGGAAGCTGTGGGCCCTCCTGCTCCACCCCATCC
CACTCCACCCATGTCTGGGCTCCAGGCAGGGAACCCGATCTCTTCTTGTGCTGGGGCCAGGCGAGTGGAGA
AACGCCCTCCAGTCTGAGAGCAGGGGAGGGAAGGAGGCAGCAGAGTTGGGGCAGCTGCTCAGAGCAGTGTCTGG
CTTCTCTCAAACCCCTGAGCGGGCTGCCGGCTCCAAGTTCTCCGACAAGATGATGGTACTAATTATGGTACTT
TTCACTCACTTTGCACCTTTCCCTGTGCTCTCTAAGCACTTTACCTGGATGGCGCGTGGGCAGTGTGCAGGCAG
GTCTGAGGCCTGGGGTTGGGGTGGAGGTTGCCGCCCGGAGTTGTCCATCTGTCCATCCCAACAGCAAGACGAGG
ATGTGGCTGTTGAGATGTGGGCCACACTACCCCTTGTCCAGGATGCAGGGACTGCCCTCTCTCTCTGCTTCATC
CGGCTTAGCTTGGGGCTGGCTGCATTCCCCAGGATGGGCTTCGAGAAAGACAACTTGTCTGGAACACAGAGTT
GCTGATTCCACCCGGGGGGCCCGGCTGACTCGCCCATCACCTCATCTCCCTGTGGACTTGGGAGCTCTGTGCCAG
GCCACCTTGGCGCCCTGGCTCTGAGTCGCTCTCCACCCAGCCTGGACTTGGCCCATGGGACCCATCCTCAGT
GCTCCCTCCAGATCCCGTCCGGCAGCTTGGCGTCCACCTGCACAGCATCACTGAATCACAGAGCCTTTGCGTGA
AACAGCTCTGCCAGGCCGGGAGCTGGGTTTCTCTCCCTTTTATCTGCTGGTGTGGACCACCTGGGCTGGC
CGGAGGAAGAGAGAGTTTACCAAGAGAGATGTCTCCGGGCCCTTATTATTATTTAAACATTTTTTAAAAAGCA
CTGCTAGTTTACTTGTCTCTCTCTCCCATCGTCCCATCGTCTCTCTGTCTGCTGACTTGGGGCACTTCCACCT
GACCCAGCCAGTCCAGCTCTGCCTTGGCGGCTCTCCAGAGTAGACATAGTGTGTGGGGTTGGAGCTCTGGCACCC
GGGGAGGTAGCATTTCCCTGCAGATGGTACAGATGTTCCCTGCCTTAGAGTCATCTCTAGTTCCCCACCTCAATCC

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FIGURE 533B

CGGCATCCAGCCTTCAGTCCCGCCACGTGCTAGCTCCGTGGGCCCACCGTGCGGCCTTAGAGGTTTCCCTCCTT
CCTTTCCACTGAAAAGCACATGGCCTTGGGTGACAAATCCCTCTTTGATGAATGTACCCTGTGGGGATGTTTCAT
ACTGACAGATTATTTTTATTATTCAATGTCATATTTAAATATTTATTTTTATACCAAATGAATCACTTTTTT
TTTAAAGAAAAAAGAGAAATGAATAAAGAATCTACTCTTCG

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FIGURE 534

MKVLAAGVPELLLVLHWKHGAGSPLPITPVNATCAIRHPCHNNLMNQIRSQLAQLNGSANALFIIYYTAQGEFPF
NNLDKLCGPNVTDFFPFHANGTEKAKLVELYRIVVYLGTS LGNITRDQKILNPSALSLSKLNATADILRGLLSN
VLCRLCSKYHVGHVDVTYGPDTSGKDVFQKKKLG CQLLGKYKQIIAVLAQAF

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FIGURE 535

TAGGATGGAAAGGCAGATGTAAAGTCCCTCATGGCGAAATATAACACGGGGGGCAACCCGACAGAGGATGTCTCA
GTCAATAGCCGACCCTTCAGAGTCACAGGGCCAACTCATCTTCAGGAATACAAGCAAGAAAGAACTTATTCAAC
AACCAAGGAAATGCCAGCCCTCCTGCAGGACCCAGCAATGTACCTAAGTTTGGGTCCCCAAAGCCACCTGTGGCA
GTCAAACCTTCTCTGAGGAAAAGCCTGACAAGGAACCCAAAGCCCCGTTTCTAAAGCCCCTGGAGCAGGCCAA
AGATTGGAACACCAGCCAGCTTGACCACCAGAGACCCGAGGCGAAAGTGGGATTCTGAAACCTGTAGGCCCC
AAGCCCATCAACTTGCCCAAAGAAGATTCCAAACCTACATTTCCTGGCCTCCTGGAAACAAGCCATCTCTTCAC
AGTGTAACCAAGACCATGACTTAAAGCCACTAGGCCCGAAATCTGGGCCTACTCCTCCAACCTCAGAAAATGAA
CAGAAGCAAGCGTTTCCCAAATTGACTGGGGTTAAAGGGAAATTTATGTCAGCATCACAAGATCTTGAACCCAAG
CCCCCTTTCCCCAAACCCGCCTTTGGCCAGAAGCCGCCCTTAAGTACCGAGAACTCCCATGAAGACGAAAGCCCC
ATGAAGAATGTGTCTTCATCAAAAGGGTCCCCAGCTCCCCTGGGAGTCAGGTCCAAAAGCGGCCCTTTAAAACCA
GCAAGGGAAGACTCAGAAAATAAAGACCATGCAGGGGAGATTTCAAGTTTGCCCTTTCTGGAGTGGTTTTGAAA
CCTGCTGCGAGCAGGGGAGGCCTAGGTCTCTCCAAAATGGTGAAGAAAAAAGGAAGATAGGAAGATAGATGCT
GCTAAGAACACCTTCCAGAGCAAAATAAATCAGGAAGAGTTGGCCTCAGGGACTCCTCCTGCCAGGTTCCCTAAG
GCCCCTTCTAAGCTGACAGTGGGGGGCCATGGGGCCAAAGTCAGGAAAAGGAAAAGGGAGACAAGAATTCAGCC
ACCCCGAAACAGAAGCCATTGCCTCCCTTGTTACCTTGGGTCCACCTCCACCAAAACCCAACAGACCACCAAT
GTTGACCTGACGAAATTCCACAAAACCTCTTCTGAAACAGTACTAGCAAAGGCCAGACGTCTTACTCAACAACCT
TCCCTGCCACCACCTCCACCATCCCATCCGGCCAGCCAACCACCATTGCCAGCATCTCACCCATCACAACCACCA
GTCCCAAGCCTACCTCCCAGAAACATTAAACCTCCGTTTGACCTAAAAGCCCTGTCAATGAAGACAATCAAGAT
GGTGTCACGCACTCTGATGGTGTGGAAATCTAGATGAGGAACAAGACAGTGAAGGAGAAACATATGAAGACATA
GAAGCATCCAAAGAAAGAGAGAAGAAAAGGGAAAAGGAAGAAAAGAGAGGTTAGAGCTGGAGAAAAGGAACAG
AAAGAGAAAGAAAAGAAAGAAACAAGAAATAAAGAAGAAATTTAACTAACAGGCCCTATTCAAGTCATCCATCTT
GCAAAAGCTTGTGTGATGTCAAAGGAGGAAAGAATGAACTGAGCTTCAAGCAAGGAGAGCAAAATGAAATCATC
CGCATCACAGACAACCCAGAAGGAAAATGGTTGGGCAGAACAGCAAGGGGTTTCATATGGCTATATTAAAACAACCT
GCTGTAGAGATTGACTATGATTCTTTGAAACTGAAAAAGACTCTCTTGGTGCCCCCTTCAAGACCTATTGAAGAT
GACCAAGAAGTATATGATGATGTTGCAGAGCAGGATGATATTAGCAGCCACAGTCAGAGTGGAAGTGAGGGGATA
TTCCCTCCACCACCAGATGATGACATTTATGATGGGATTGAAGAGGAAGATGCTGATGATGGTTTCCCTGCTCCT
CCTAAACAATTGGACATGGGAGATGAAGTTTACGATGATGTGGATACCTCTGATTTCCTGTTTCATCAGCAGAG
ATGAGTCAAGGAACTAATTTTGGAAAAGCTAAGACAGAAGAAAAGGACCTTAAGAAGCTAAAAAGCAGGAAAAA
GAAGAAAAGACTTCAGGAAAAAATTTAAATATGATGGTGAAATTAGAGTCCTATATTCAACTAAAGTTACAACCT
TCCATAACTTCTAAAAAGTGGGGAACCAGAGATCTACAGGTAAACCTGGTGAATCTCTAGAAGTTATACAAACC
ACAGATGACACAAAAGTTCTCTGCAGAAATGAAGAAGGGAAATATGGTTATGTCCTTCGGAGTTACCTAGCGGAC
AATGATGGAGAGATCTATGATGATATTGCTGATGGCTGCATCTATGACAATGACTAGCACTCAACTTTGGTCATT

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FIGURE 536

MAKYNTGGNPTEDEVSVNSRPFRVTGPNSSSGIQARKNLFNNQGNASPPAGPSNVPKFGSPKPPVAVKPSSEKPD
KEPKPPFLKPTGAGQRFGTASLTTRDPEAKVGFLKPVGPKPINLPKEDSKPTFPWPPGNKPSLHSVNQDHDLP
LGPKSGPTPPTSENEQQAFFPKLTGVKGKFMASQDLEPKPLFPKPAFGQKPLSTENSHEDSPMKNVSSSKGS
PAPLGVRSGPLKPAREDSENKDHAGEISSLPFGVVLKPAASRGGLGLSKNGEKKEDRKIDAANKTFQSKIN
QEELASGTPPARFPKAPSKLTVGGPWGQSQEKEKGDKNSATPKQKPLPPLFTLGPPPPKPNRPPNVDLTKFHKT
SGNSTSKGQTSYSTTSLPPPPPSHPASQPPLPASHPSQPPVPSLPPRNIKPPFDLKSPVNEDNQDGVTHSDGAGN
LDEEQDSEGETYEDIEASKEREKKREKEKKRLELEKKEQKEKEKKEQEIKKKFKLTGPIQVIHLAKACCDVKGG
KNELSFQGEQIEIIRITDNPEGKWLGRGTARGSYGYIKTTAVEIDYDSLKLKDSLGAAPSRPIEDDQEVYDDVAE
QDDISSHSQSGSGGIFPPPPDDDIYDGIEEDADDGFPAPPKQLDMGDEVYDDVDTSDFPVSSAEMSQGTNFGKA
KTEEKDLKKLKKQEKEKDFRKKFKYDGEIRVLYSTKVTTSTSKKWGTRDLQVKPGESLEVIQTDDTKVLCRN
EEGKYGYVLRSYLADNDGEIYDDIADGCIYDND

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FIGURE 537A

CGAAGAGGATCCGGAGCAGCTGCTGCCAGCCCGCGGGCACTGAAGTCCTCCCGGCTGCCGCTCGAGTAGCCACGG
GCGCGATCGGGACCAGAAGTCTCCTCCTCCATGATCACTTTGGAAAGCCGGGGGGAAGACTTTGCCCTGCCCTGA
GAGCTGGTCTGCGTTTCCCAGGCGGGCGGGCGGAGCAGCTGCAGCAGCCGAGTCCAAATAGGAGCGGGC
ACAGCCAGGGGCGTGTGCGCCCCGCGCGGAGCAGCTCGGGTTCCTCGGAATGTCCCCGGGGCGCCCCGCGC
CTGACCCCGAAGCCGCTCCGCCCTTCGGCGCCTGCTGCCTCCCTCGGCCAGGCTTGTGTTCGGGACTGTGAGCT
TCCTGGCTCCTGGGCAGTGGGGAAGCCCCGGGGGCGAGTGACCTCAGCTGGCCACGACCCAGCCCTCCCCCGTG
CGTATCTCGCTTAAGATGGCAGCGGAGTCAGGGGAATAATCGGGGCTTGTGAGTTCATGAAAGATCGGTTATAT
TTTGCTACTTTAAGGAATAGACCAAAAAGCACAGTAAATACCCACTATTTCTCCATCGATGAGGAGCTGGTCTAT
GAAAATTTCTATGCAGATTTTGGACCGCTGAACCTGGCAATGGTGTACAGATATTGCTGCAAACTAAACAAGAAA
CTAAAATCATACAGTTTGTCAAGAAAGAAAATAGTGCACCTACCTGTTTTTGACCAACGGAAAAGAGCAAAATGCA
GCATTTTTTGATAGGTGCCTATGCAGTAATCTATTTAAAGAAGACACCAGAAGAAGCCTACAGAGCACTCCTGTCT
GGCTCAAACCCCCCTATCTTCCATTCAGGGATGCTTCTTTGGAAATTGCACCTACAATCTCACCATTCTCGAC
TGTTTGCAGGGAATCAGAAAGGGATTACAACATGGATTTTTTGTGACTTTGAGACATTGATGTGGATGAATATGAA
CATTATGAGCGAGTTGAAAATGGTGACTTCAACTGGATTGTTCCAGGAAAATTTTAGCATTTAGTGGACCACAT
CCTAAAAGCAAAATGAGAATGGTTATCCTCTTCAGCCCCCTGAAGCCTACTTCTTATTTCAAAAAGCATAAT
GTGACTGCAGTTGTGAGGCTAAACAAAAGATTTATGAGGCAAAGCGCTTCACAGACGCTGGCTTCGAGCACTAT
GACCTCTTCTTCATAGATGGCAGCACACCCAGTGACAACATCGTGCGAAGGTTCTGAACATCTGTGAGAACACC
GAAGGGGCCATCGCCGTTCACTGCAAAGCTGGCTTGGGAAGAACAGGGACATTGATAGCCTGTTATGTAATGAAA
CACTACAGGTTTACACATGCTGAAATAATTGCTTGGATTAGAATATGCCGGCCAGGCTCTATTATAGGACCCAG
CAGCACTTCTTGGAAAGAAAACAAGCATCGTTGTGGGTCCAAGGAGACATTTTCCGATCCAAACTGAAAATCGA
CCATCCAGTGAAGGAAGTATTAATAAAATTCTTTCTGGCCTAGATGATATGTCTATTGGTGGAAATCTTTCAAAA
ACACAAAACATGGAACGATTTGGAGAGGATAACTTAGAAGATGATGATGTGGAATGAAAATGGTATAACCCAG
GGAGACAAACTACGTGCCTTAAAAAGTCAGAGACAGCCACGTACCTACCATCCTGTGCATTTAGGTGAGATGAT
ACAAAAGGACATCCAAGAGCAGTGTCCAGCCTTTCAGATTAAGTTCATCCCTGCAAGGATCTGCAGTTACTTTG
AAGACATCAAAAATGGCACTGTCCCTTCAGCAACGCCAAGAGGATCAACAGAACTTCTTTGTCTTCGGGTGCC
ACTGTAAGAAGCTTTTCCATAAACTCCCGGCTAGCCAGTTCTCTAGGGAAGTTGAATGCTGCAACAGATGATCCA
GAGAACAAAAGACCTCCTCATCCTTAAGGCAGGCTTCACAGCCAGCCGTTTACCAACCTCTTGAATGGCAGC
TCCCAGCCAACTACCAGAAATTACCCTGAGCTCAACAATAATCAGTACAACAGAAGCAGCAACAGCAACGGGGGC
AACCTGAACAGCCCCCAGGCCCCACAGCGCCAAGACAGAGGAGCACACCACCATCCTCCGACCCTCTTACACC
GGGCTTTCTTCTTCTTCAGCGAGATTCTGAGCCGTTCTATCCCTTCCCTTCAGTCTGAATATGTTCACTACTAA
GGCCTTGCCACTCCAGTGAAAGCTGTTCTTCTTACCTTAAATTAAGAGAGCACTAAGATAACACCTTCAAG
AGACTTGAAAACAGAAAAGTGGTTAATGACTACTATAAATGCACTGAACTATGTTATGGAGATTTCCATACCTT
TAAAGACAGTTTAAATGTTGAATTTGGTATTTTGAAGGGTTATTTTAAATGATTTTGGTAATACATTTATTATT
ATATTTACATGTACAGTGTTACATTATATATGATTTGTGAACCTTAAAGAGCTATTTTGATAAATTTATAAATAT
ATAAATATATGTAAGAACTACACTATATTTTGATTTAGATTTTCTGCTGTTTGCTACCAAAATTTGTATTTTA
AATCTGTTTAGTTTTAGTATGGTTTTGTCTCTAATGAATAAATAATTCCTTCTTATTAAGAAGAAGTAAGGGAGA
AAGTTTTTAGAAAGTGATTTTTATGCTCGCACTATAAATATGGCAGGTCAGTTCATTCTTTTGGGAAGTCAGTTT
AGTTACACTGAGTTTTATCCAAGTTTATCTTACCAAGAGTATAATGGCATGGGATGGCTTATTTAGGACAATTCC
CTTTCCTATTGTTTTTGTGCTGAGCCAATTTGAGTTAGTTTTGCATCCTGGGGGGCTTAAATACAGCATGCA
GTGAAAGATCAGAATTCAGTAATTTCTTCTGAGAGCATGGTTTTCATGGTTTTTCTCTATGAAATGACTCAAT
ATTCCAAATGTTTTTTTTTCTTCTCCTTTCAAAAGAGTTCTTAACCAATTAGGATATCCTGCTTTGGGTATG
AGGTTGTGTTGCCGTGTAATCACACATGGTTTGACATCAGTTTTAAATCAATGGAGAGAAAAAAGTGAAGAGAT
GCTGCTAAGTAGTTCTCTGTATTAAAGGAGATATTTTTAAACAGGGTACAACCCCTGCTGCACACGCTAGCAT
ATCTGGAACCTACTATGAAAATGAAAGGACCCCTATAGGTACTCACAGCCCTTTCATGTAAGTATGATCTGATAT
TTAGGTCTTCAGAAGCCTGAGGTTTCAATTTCTATGAGGAATCGAGGAGCGTTACATCCTGATATCCTTCCAGGC
TGCTTAAAGATGGACTGCTTCGACACTGAAAGTGCTAGTTAAATGGATTCAATGAAGTGCTTTACTCCCAACCA
TTGAGTTATTTATAATGTATTTATTAGGGGAGGGTACCTTGAGTCTATTATATATGCTTCATCAAAACATCTTGT

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FIGURE 537B

TCATGTTTTATGTTTTTAAAAAAGGCATTTGAATGAATGTTTGACTCAGGTTTGTTAAATTAAC TTCAGTAACTG
CAGTACCAAAAATTACACTCAACTGATGAAAAAACGAATTGTATGATTTAGGAATCAAAAATAAAATAAGTGG
AATTATGTATCTTTTCTAAAGTTAAAAAGTAAATATTTTATTATGAGTTATTATAAAAAATTGGTTAATTGTAT
AGGAAGATGACAGTATTTTTTTCAAGTTATCATAAAAAGTAATTCAGATGACATTTGAGAAGTAGGGGAAAGGGA
ATCATGTTGACAGTTTTAGTTCTGTGAACACTAATTTGTGTGAAGCTATTAAATGATTGTAAAGTTGACTACTG
TAAATTTCCCATTAATTATGTGTGTATATGTGTCATATGTATGTACATGTATATGCTAAAAATTACTTTACACAT
GTGCCTACATAGACACACCAAGAAGTGGATGTATATAATATAGAAAGTATATAGCAAAGTAATTTTACTCTGATA
ATAAAAATTGTTTGACATGTATTTTGTATGAATAGTTTATCTTCCAAAAGATATTTTGCTCTATTTTAAAGTGT
AGAAGAATACACTGCTAATAAATAATAAAAGTTTATTCAATTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 538

MAAESGELIGACEFMKDRLYFATLRNRPKSTVNTYFSIDEELVYENFYADFGPLNLAMVYRYCCKLNKKLKSYS
LSRKKIVHYTCFDQRKRANAFLIGAYAVIYLKKTPEEAYRALLSGSNPPYLPFRDASFGNCTYNLTILDCLQGI
RKGLQHGFDFETFDVDEYEHYERVENGDFNWIVPGKFLAFSGPHPKSKIENGYPLHAPEAYFPYFKKHNVTA
VLNKKIYEAKRFTDAGFEHYDLFFIDGSTPSDNIVRRFLNICENTEGAIAVHCKAGLGRTGTLIACYVMKH
YRFTHAEIIAWIRICRPGSIIGPQQHFLEEKQASLWVQGDIFRSKLKNRPSSEGSINKILSGLDDMSIG
NLSKTQNMERFGEVSFP

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FIGURE 539

CACTCCCAAAGAACTGGGTACTCAACACTGAGCAGATCTGTTCTTTGAGCTAAAAACCATGTGCTGTACCAAGAG
TTTGCTCCTGGCTGCTTTGATGTCAGTGCTGCTACTCCACCTCTGCGGCGAATCAGAAGCAGCAAGCAACTTTGA
CTGCTGTCTTGGATACACAGACCGTATTCTTCATCCTAAATTTATTGTGGGCTTCACACGGCAGCTGGCCAATGA
AGGCTGTGACATCAATGCTATCATCTTTCACACAAAGAAAAAGTTGTCTGTGTGCGCAAATCCAAAACAGACTTG
GGTGAAATATATTGTGCGTCTCCTCAGTAAAAAAGTCAAGAACATGTAAAAACTGTGGCTTTTCTGGAATGGAAT
TGGACATAGCCCAAGAACAGAAAGAACCTTGCTGGGGTTGGAGGTTTCACTTGACATCATGGAGGGTTTAGTGC
TTATCTAATTTGTGCCTCACTGGACTTGTCCAATTAATGAAGTTGATTCAATTGCATCATAGTTTGCTTTGTTT
AAGCATCACATTAAAGTTAACTGTATTTTATGTATTTATAGCTGTAGGTTTTCTGTGTTTAGCTATTTAATAC
TAATTTTCCATAAGCTATTTTGGTTTAGTGCAAAGTATAAAATTATTTGGGGGGGAATAAGATTATATGGACT
TTCTTGCAAGCAACAAGCTATTTTAAAAAAACTATTTAACATTCCTTTGTTTATATTGTTTTGTCTCCTAAAT
TGTTGTAATTGCATTATAAAATAAGAAAAACATTAATAAGACAAATATT

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FIGURE 540

MCCTKSLLLAALMSVLLLHLCGESEAASNFDCCLGYTDRILHPKFIVGFTRQLANEGCDINAIIFHTKKKLSVCA
NPKQTWVKYIVRLLSKKVKNM

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FIGURE 541

GGCACCGATTTCGGGGCCTGCCCGGACTTCGCCGCACGCTGCAGAACCTCGCCCAGCGCCCACCATGCCCCGGCAG
CTCAGCGCGGCGGCCGCGCTCTTCGCGTCCCCTGGCCGTAATTTTGCACGATGGCAGTCAAATGAGAGCAAAAGCA
TTTCCAGAAACCAGAGATTATTCTCAACCTACTGCAGCAGCAACAGTACAGGACATAAAAAAACCTGTCCAGCAA
CCAGCTAAGCAAGCACCTCACCAAACCTTTAGCAGCAAGATTTCATGGATGGTCATATCACCTTTCAAACAGCGGCC
ACAGTAAAAATTCCAACAACCTACCCAGCAACTACAAAAACACTGCAACCACCAGCCCAATTACCTACACCCTG
GTCACAACCCAGGCCACCCCAACAACCTCACACACAGCTCCTCCAGTTACTGAAGTTACAGTCGGCCCTAGCTTA
GCCCCTTATTACTGCCCACCCACCATCACCCACCAGCTCATACAGCTGGAACCAGTTCATCAACCGTCAGCCAC
ACAACCTGGGAACACCACCTCAACCCAGTAACCAGACCACCCTTCCAGCAACTTTATCGATAGCACTGCACAAAAGC
ACAACCGGTTCAGAAGCCTGATCAACCCACCCATGCCCCAGGAACAACGGCAGCTGCCCAACAATACCACCCGCACA
GCTGCACCTGCCCTCCACGGTTCCCTGGGCCACCCCTGCACCTCAGCCATCGTCAGTCAAGACTGGAATTTATCAG
GTTCTAAACGGAAGCAGACTCTGTATAAAAGCAGAGATGGGGATACAGCTGATTGTTCAAGACAAGGAGTCGGTT
TTTTACCTCGGAGATACTTCAACATCGACCCCAACGCAACGCAAGCCTCTGGGAAGTGTGGCACCCGAAAATCC
AACCTTCTGTTGAATTTTCAGGGCGGATTTGTGAATCTCACATTTACCAAGGATGAAGAATCATATTATATCAGT
GAAGTGGGAGCCTATTTGACCGTCTCAGATCCAGAGACAGTTTACCAAGGAATCAAACATGCGGTGGTGATGTTT
CAGACAGCAGTCGGGCATTTCCTTCAAGTGCCTGAGTGAACAGAGCCTCCAGTTGTCAGCCCACCTGCAGGTGAAA
ACAACCGATGTCCAACCTCAAGCCTTTGATTTTGAAGATGACCACCTTTGGAATGTGGATGAGTGCTCGTCTGAC
TACACAATTGTGCTTCCTGTGATTGGGGCCATCGTGGTTGGTCTCTGCCTTATGGGTATGGGTGTCTATAAAATC
CGCCTAAGGTGTCAATCATCTGGATACCAGAGAATCTAATTGTTGCCCGGGGGGAATGAAAATAATGGAATTTAG
AGAACTCTTTCATCCCTTCCAGGATGGATGTTGGGAAATTCCTCAGAGTGTGGGTCTTCAAACAAATGTAAACC
ACCATCTTCTATTCAAATGAAGTGAGTCATGTGTGATTTAAGTTCAGGCAGCACATCAATTTCTAAATACTTTTT
GTTTATTTTATGAAAGATATAGTGAGCTGTTTATTTCTAGTTTCTTTAGAAATATTTAGCCACTCAAAGTCAA
CATTTGAGATATGTTGAATTAACATAATATATGTAAAGTAGAATAAGCCTTCAAATATAAACCAAGGGTCAATT
GTAACATAACTACTGTGTGTGCATTGAAGATTTTATTTTACCCTTGATCTTAACAAGCCTTTGCTTTGTTATC
AAATGGACITTTAGTGCTTTTACTATCTGTGTTTTATGGTTTTCATGTAACATACATATTCCTGGTGTAGCACTTA
ACTCCTTTTCCACTTTAAATTTGTTTTGTTTTTGGAGACGGAGTTTCACTCTTGTGCCCCAGGCTGGAGTACAG
TGGCAGGATCTCGGCTTAAGGCAACCTCCGCCTCCCGGGTTCAAGTGATTCTCCTGCTTCAGCTTCCCGAGTAGC
TGGGATTACAGGCACACACTACCACGCCTGGCTAATTTTTGTATTTTATTATAGACGGGTTTACCATGTTGGC
CAGACTGGTCTTGAACCTTTGACCTCAGGTGATCCAGCCACCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATG
AGCCATTGCGCCCGGCCTTAAATGTTTTTTTTTAAATCATCAAAAAGAACAAATATCTCAGGTTGTCTAAGTGTTT
TTATGTAAAACCAACAAAAGAACAAATCAGCTTATATTTTTTATCTTGATGACTCCTGCTCCAGAATTGCTAGA
CTAAGAATTAGGTGGCTACAGATGGTAGAACTAAACAATAAGCAAGAGACAATAATAATGGCCCTTAATTATTAA
CAAAGTGCCAGAGTCTAGGCTAAGCACTTTATCTATATCTCATTTCATTCTCACAACCTATAAGTGAATGAGTAA
ACTGAGACTTAAGGGAAGTGAATCACTTAAATGTACCTGGCTAACTGATGGCAGAGCCAGAGCTTGAATTCATG
TTGGTCTGACATCAAGGTCTTTGGTCTTCTCCCTACACCAAGTTACCTACAAGAACAATGACACCACACTCTGCC
TGAAGGCTCACACCTCATACCAGCATACGCTCACCTTACAGGGAAATGGGTTTATCCAGGATCATGAGACATTAG
GGTAGATGAAAGGAGAGCTTTGCAGATAACAAAATAGCCTATCCTTAATAAATCCTCCACTCTCTGGAAGGAGAC
TGAGGGGCTTTGTAAACATTAGTCAGTTGCTCATTTTTATGGGATTGCTTAGCTGGGCTGTAAAGATGAAGGCA
TCAAATAAACTCAAAGTATTTTTAAATTTTTTGTATAATAGAGAACTTCGCTAACCAACTGTTCTTTCTTGAGT
GTATAGCCCCATCTTGTGGTAACTTGCTGCTTCTGCACTTCATATCCATATTTCTATTGTTCACTTTATCTGT
AGAGCAGCCTGCCAAGAATTTTATTTCTGCTGTTTTTTTGTCTGCTAAAGAAAGGAAGTCAAGTCAGGATGTTAAC
AGAAAAGTCCACATAACCCTAGAATTTCTAGTCAAGGAATAATTCAAGTCAGCCTAGAGACCATGTTGACTTTCC
TCATGTGTTTCTTATGACTCAGTAAGTTGGCAAGTCTGACTTTAGTCTTAATAAAACATTGAATTGTAGTAA
AGGTTTTTGCAATAAAAACTTACTTTGG

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FIGURE 542

MPRQLSAAAALFASLAVILHDGSQMRKAFPETRDYSQPTAAATVQDIKKPVQQPAKQAPHQTAAAFMDGHITF
QTAATVKIPTTTTPATTKNTATTSPITYTLVTTQATPNNSTAPPVTEVTVGPSLAPYSLPPTITPPAHTAGTSSS
TVSHTTGNTTQPSNQTTLPATLSIALHKSTTGQKPDQPTHAPGTTAAAHNTTRTAAPASTVPGPTLAPQPSSVKT
GIYQVLNGSRLCIKAEMGIQLIVQDKESVFSPPRYFNIDPNATQASGNCGTRKSNLLLNFGGGFVNLTFTKDEES
YYISEVGAYLTVSDPETVYQGIKHAVVMFQTAVGHFSFKCVSEQSLQLSAHLQVKTTDVQLQAFDFEDDHFGNVDE
CSSDYTIIVLPVIGAIVVGLCLMGMGVYKIRLRCQSSGYQRI

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FIGURE 543

AGCATCGCGCGCAAGGCCTGCCGGTTGCTCGGGGTCGTATGACGCACITTTCCAGCTCGAGCCCTCACGAGGCCG
TGGGTACGACCGGAAGCCGCAGACTGAATCTCGCTCTGTTGCCAGCCCATCTCGGCCCACTGAAACCTCCACCT
CCCGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGATTACAGGCGCCCGCCACCACGCCAGCA
TGCTGATCCCATTTTCAATGAAGAATTGCTTCCAGTTACTTTGTAAGTCCAGGTCCCAGCAGCTGGCTTTAAAA
AAACAGTAAAAATGGGCTCATTTTACAGTCAATTTCCAATGATGTCTATCAAAATCTGGCTGTGGAAGACTGGA
TCCATGACCATATGAATCTAGAAGGCAAACCAATTCTATTCTTTTGGCAGAATTCTCCCTCTGTTGTAATTGGTA
GGCATCAAAATCCTTGGCAGGAATGTAACCTGAATCTAATGAGAGAAGAAGGTATAAACTGGCTCGGAGAAGAA
GTGGAGGAGGAACAGTCTACCATGATATGGGTAATATCAATTTGACTTTCTTTACAACCAAAAAAAGTATGATA
GAATGGAAAATCTGAAATTAATTGTGAGAGCTCTGAATGCTGTCCAACCCAGCTGGATGTGCAGGCTACCAAAA
GATTTGACCTTTTACTTGATGGACAGTTTAAAAATCTCAGGAACAGCTTCTAAGATCGGCCGGACTACTGCCTATC
ACCATTGCACITTTATTATGTAGTACTGATGGGACGTTCTTGTCTTCTTTGCTAAAGAGCCCTTACCAAGGGATCA
GGAGCAATGCCACTGCTAGCATACCTTCCTTAGTGAAAAATCTTTGGAAAAGGATCCCACTCTGACCTGTGAAG
TACTAATGAATGCTGTTGCTACAGAGTATGCTGCTTATCATCAAATTGATAATCACATTCACCTAATAAACCCAA
CGGATGAGACACTGTTTCTTGGAAATAAATAGCAAAGCCAAAGAACTGCAAACCTGGGAGTGGATATATGGCAAAA
CTCCAAAGTTTAGTATAAATACTTCCTTTTATGTGTTATATGAACAGTCACACTTGGAAATTAAGTATTATAG
ACATAAAGAATGGAAGAATTGAAATTTGTAATATTGAAGCACCTGATCATTGGTTGCCATTGGAAATACGTGACA
AATTAAATTCAAGTCTTATTGGCAGTAAGTTTGGCCCACTGAACTACCATGCTAACAATATATTACTTAGAA
CATGTCCACAAGACCACAACTAAACAGTAAATGGAATATTCTCTGTGAAAAAATTAAGGGAATAATGTGATTCC
AAGTAAATGTCTTAATACAGTTTCAATTAGAAAAATAAATGTCTCATACTTGCACATTGTATGTC

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FIGURE 544

MLIPFSMKNCFQLLCNCQVPAAGFKKTVKNGLILOSI SNDVYQNLAVEDWIDHDMNLEGKPIFFWQNSPSVIG
RHQNPWQECNLNLMREEGIKLARRRSGGGTVYHDMGNINLTFFTTKKKYDRMENLKLIVRALNAVQPQLDVQATK
RFDLLLDGQFKISGTASKIGRTTAYHHCTLLCSTDGTFLSSLLKSPYQGIRSNATASIPSLVKNLLEKDPTLTCE
VLMNAVATEYAAAHQIDNHIHLINPTDETLPFGINSKAKELQTEWIIYGKTPKFSINTSFHVLYEQSHLEIKVFI
DIKNGRIEICNIEAPDHWLPLEIRDKLNSSLIGSKFCPTETTMLTNILLRTCPQDHKLNSKWNILCEKIGIM

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FIGURE 545A

GCGGGGAGCCGGCGGTTATCTGGGCGGCGGAGCGCTCACAATGTGGCAGGAGACAGAAAAGATAAGATGCTCCCA
AGTCCCTTGCACTCTCTTCAGAAGAAAAATCACTAGTGCTCTGCTCTTGCCATAATACCAAACCTTTTGGACTC
ATGCTTTGGTGCTGCAACACTGGAAGAATTGCACACAGTTTCCAGGAATATCTTTTTTTCATTTGAGTGATTCTT
TGTGGATGAGAAAAGATTTGAGTCTTAATAATTACCTGTTTTAAAGCTATTTCTTTATAGTCTGAAGTGTAA
TAAATTGGGCCACTTACCAATGAGCCACACAGCCAGTTCTTGTGAGGAGCTGGTTGAAAAGTGTGCTGTGCATGT
AGCAGGAATGGCACAAGAAGATAGCCGTCGTGGTCAAGTGCCATCTTCTTTTATCATGGTGCCAACCAAGAACT
TGACCTGTCCACCAAAGTGTACAAAAGGGAATCAGGAAGTCCTTATTCTGTGTTAGTGGACACCAAGATGAGCAA
ACCGCATCTCCATGAAACAGAAGAAGACCCATATTTACGGGAGACAAGAGCAGTGTCTGACGTGCATGTCTTAA
GGAAGACCGGGAGAATTCTGATGACACAGAGGAGGAAGAGGAAGAAGTCTTTACAAAAGGGAGCAGATCATAGT
GGAGGTAAACCTTAATAATCAAACATTAAATGTATCTAAAGGGGAAAAGGGTGTCTCTTCTCAGTCCAAAGAGAC
TCCTGTTCTTAAGACAAGCAGTGAGGAGGAAGAGGAAGAGAGTGAGGAAGAGGCCACAGATGACAGCAATGACTA
TGGAGAGAATGAAAAGCAGAAGAAAAAGGAGAAGATAGTAGAGAAAGTCAGCGTTACACAAAGGAGAACCAGGAG
AGTGCCTCTGTTGCCGAGCTACCACTTCCCTACTCCAGAACTACAAGAGGTCGTAGGAAGAGTGTAGAGCC
ACCTAAGCGTAAGAAGCGGGCCACAAAGGAGCCCAAGCACCAGTCCAGAAAGCTAAGTGTGAAGAGAAAGAGAC
TCTGACCTGTGAGAAGTGCCCCAGGGTATTTAACAACCTGCTGGTACCTGGAGAAGCAGATGAACGTTACTCATAG
GCGCATGCAGATTTGTGATAAATGTGGCAAGAAGTTTGTCTGGAAAGTGAGCTGTCCCTTCACCAGCAAACAGA
CTGTGAAAAAACATTGAGTGTGTTTCTGTAAACAAATCGTTCAAGAACTCTGGTCCCTTCATGAACATATCAA
GATCGTCCATGGATATGCAGAAAAGAAATTTTCTGTGAAATTTGTGAGAAGAAATTTATACCATGGCTCATGT
GCGGAAACACATGGTTGCACACACAAAAGACATGCCATTTACATGCGAAACCTGTGGAATTCATTCAAACGCAG
TATGTCACTCAAGGTGCATCTCTTGCAGCATTCTGGAGAGAAGCCCTTTAGATGCGAGAAGTGTGACGAAAGGTT
TCAGTACAAGTACCAGCTACGCTCCCATGAGCATTATATTGGGCACAAACAGTTCATGTGCCAGTGGTGTGG
CAAGGATTTCAACATGAAGCAGTACTTCGACGAACACATGAAAACACACACTGGAGAGAAACCTTTATCTGTGA
AATCTGTGGCAAAGCTTCACCAGCCGCCCAACATGAAGAGACACCGCAGAACTCACACAGGCGAGAAGCCCTA
TCCATGTGATGTGTGTGGCCAGCGGTTCCGCTTCTCGAACATGCTTAAGGCCCAAGGAGAAGTGCTTTCCGGGT
GACCAGCCCCGTGAATGTGCCACCTGCTGTCCAGATCCCACTTACAACCTTCCCCAGCCACCCAGTTCTCTGT
GGTGAACACAGCCACAACCCCAACCCCTCCAATCAATGAATCCTGTAAGCACTCTTCCCCCTCGGCCCATCCC
CCACCCCTTCTCACACCTGCACATCCACCCACACCCCTCACCACCCACACCACCTTCCCATCCCTCCAGTCCCTCA
CCTCCCGCCACCTCCAGCTCTCTTTAAGAGTGAGCCTTTAAATCATAGAGGCCAGAGTGAGGACAACCTTCTGCG
GCACCTGGCAGAGAAGAAGAGTTTACGACAGCATCATTAACATCCGCTCTCCTTAGTGTGTTCTCCAGGAGACAG
TCCCCATGTGTGAGCGTGACAGAGGGAGTGGTGAGCATTCTCTTAGTCTCAGACTCTCCTCCGCTCTACCA
AGAGCTTCGCCAGTGTCACTGAATCAACAGATCCAAGGGAATGAACAAGAAGACTACCTTGAGCTCACAGAGGGA
CTGTCTCTAAACCAGGGGAACCACTGAATAAGCCCAATTTGCTTGCAATTTCTGATGACTTTTATAAGTTTC
AAATACTCAGACTTGTGGAATTTTATAATTTATATCAGCTGATGAGGTATGCTTGGTTTTATATCCCAGACTTC
TCCTCAAAGAGGGGATAGGCCTGGTTTCTTTGTACTAATCGGGAAGGCTGTGAGATTAATCCAGAGCATTAATT
GTATCACTGTGTATGGTAAGGAATTTCTTTTCTTTTGGTGCCAGCTACAGAGTTGAGCTGGCCATGTTTCACA
GTATATCAAGCATTATAGAGAAAGACAGAAATTTTCTTCTTTGTGTAGCTCTCCTAACGCACTCTTTATTTTACT
ACAGAAATTTTATAGAGTTTTTGTATAGACTTCTTTGGTAGTCTGTTTCTAAATGAAATGTATTTCAATAAGC
AGTGTAAATTTTTCAGTGTAGCTGAACCTATGTTGTAAATAGAAAAAATTTTATAATCATCAAAATGTGATT
CTTAAAGATGCATATAACTTCTATAATTCAAAGCTATCTTACATCCGTACAACCTAAAAGGTGCTTCAGAGACT
AGATGTATCTGAGAGGGTCTCCAGACCAGGTTACTGCAAAAATGAGGTTTGGCTTTCAGGATTTGGCGTAAATAC
TTGGTAGTTTTGACATCTCTGCTTAACACTCAAGAGAGGCTCCCTAATGTGCTCCTGCTCCTCATGTTCTGCTTG
GCTTCGTTAGTGCATTACATGAAATGATTGTCAGGGGATGGGGCCTTTCCAGGGAAGTCACCTAAAGCTTGCA
GTTTTGAAAATTTGAATAAGGCTGTTTGTGACAGGAGGAGGAAGTAGTGGAGATCATTTCATCTCAGTCACGTC
TGTTTCTCACTTCCCTTAGGAATTGTGTGATGTTTAACTTTTATGGGATGACAAATTGAAATCGCTCATTTTGA
GGTTGCTTTATTTTCTAGAATTGTTATAAGAAGCTAAATAGTAACTTAAATCACAAACATGACATTGCTGA
TAGTGGCTGAGAAATTCAGATGAGAAGACAAATTTGTTATGAATTTTGAATATCTATTATATGTAATGTGGA
TATGTTCAACCTTGAGCTATTTTAAACAGTTTAAATATAGTGAGGGAAGTCCCTAAGTTTTACTGCCCTGT
CCTCTGCAAATTTATGTAATACCAGCATTCTTAGCGATAAAGAGAGCAGCACCTCTAGTACCTTTAGGCAGATTA

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FIGURE 545B

CTTTTCAAGTTTGGGGAACCTCAAAGACCATAATCAACCAGGAGCTTATTATAGGAAAGGCTGAACAGAAGGG
CTAGTGTATTGATTACACTTAACAGATCATATTTATCCAGACTCAGTATAGCTTAAAATTTTGTATTTCTTTATC
TGAGAGAAGTGAAGTTCCAGGCTAAATCACTTACCTCCCACCCCTCTCCAATTTTTTTTTTAAGAGACAAGGTC
TTGCTATGTTGCCAGGCTAGAGTGCAGTGGCTATTACAGGTGCAGTTATAGCACACTACAGCCTCCAACCTCTT
GGGTTCAAGCAACCCCTGCCTCAGCTAACCAAGTAGCTGGGACTACAGGTGCATGCTACCATGCCAGTCCATTTT
TTAATCTTGAAATTTCTTCATTTTTCTTTCTTCGGTTTCTTAAAATCTTGCCTGAATCAGAACGCTGGCTTTTA
TTTATTTTTTTTATTTTAAATATTAAATGTGCAGATATGCTTCGAGCACTTTTCTAACTAATGAGCTCTGTGGTAA
GAAAAATGAACCTTTCAATTGAGATTAAGTCCATATTTTTCAAACATCACGTTCTCTATTGGCTTTTTGGTTT
AGTGTCTTCAAATTTCTCCTTCTGATTTTGCCTGTCTTATATAATGAGCATAGGAAAAATTTGGAATGAGGCAG
AAAAGTATATCAAGACATACTTCCTGGTTTTGGATGTAAGTTTTAAAGAATGGTATTTTTAATATTTGTACACAT
TCTTTGAGCACCCAGGTACCCAAGCCAATAAGGAAAGTTAATTCCTTGACATATGACTGTTATATCTTTAGTGGTT
GTCTCCCTCTCCCTCCACAGTCTCCTTGGCATTCCATGACAAGTTTGTCAACCTACACTTTTATATAGACATGTC
ATTATTTCAATGGTCAAGCCTGTAGTATTAAATGATTTTTTTAAAGATGTAACTGTGCTTAGTTAATTGGTTA
TATTTTGTCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGCAGAGTCTTGTCTGTTCCTGGGCTGGAGTG
CAGTGGCGTGATCTTGGCTCACTGCAACCCCGCCCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGT
AGCTGGAATTACAGGCATGCGCCAGCAGCCCGGCTAAGTTTGTATTTTGGCAGAGATGGGGTTTCACCATAT
TGCCAGGCTGGTCTCAAACCTCCTGACCTTGTGATCCGCCACCTCAGCCTCCGAAAGTGCTGGGATTACAGGCG
TGAGCCACCACGTCCAACCTGCCTTATTTTGTCTGAATAAATTTACAGTATTGGGCAGCAATTCTGGATTCTAGA
CTTGAGACCACAGAATCAACCATTTTCATGAGGTTGTACTGTAATTATACACTGGAATATTCAGGTAGTCATCTTT
GATTTTTCATTCAAGTAAATATAGCCATAAGAAAATATCTGCTATACAGGAAAACCAGTATTAAGCAAATACCAC
CATCCTTAACAGAAACAAAAATATATATATATATATTATTTTTAAAAATTAGCATTGTCATACAGTACAATTCTTAG
TGAAGTGATTGTGGAACAATTTAGAACTTCCTTTTTTCCCCTAGATTAAGGATACCTTCCTTGACTTGAGAC
TTGTGGTCTTCAGGAAAACCTACTCAGAATATAATGACTCCTCATCAGTATCATATTGTATATAAATAATGAAATG
CATTAGAATATTCACAACATTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCGCTCCAG
CCTGGGCAACAGAGCGAGACTCCATCTC

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FIGURE 546

MSHTASSCQELVENCAVHVAGMAQEDSRRGQVPSSFYHGANQELDLSTKVYKRESGSPYSVLVDTKMSKPHLHET
EEQPYFRETRAVSDVHAVKEDRENSDDTEEEEEVSYKREQIIIEVNLNNQTLNVSKGEKGVSSQSKETPVLKTS
SEEEEESEEEATDDSN DYGENEKQKKKEKIVEKVSVTQRRTIRRAASVAAATTSPTPRTTRGRRKSVEPPKRKKR
ATKEPKAPVQKAKCEEKETLTCEKCPRVFNTRWYLEKHMNVTHRRMQICDKCGKKFVLESELSLHQQTDCENIQ
CVSCNKSFKKLWSLHEHIKIVHGYAEKKFSCEICEKKFYTMAHVRKHMVAHTKDMPTCETCGKSFKRSM SLKVH
SLQHSGEKPPRCENC DERFQYKYQLRSHMSIHIGHKQFMCQWCGKDFNMKQYFDEHMKHTHTGEKPFICEICGKSF
TSRPNMKRHRRTHTGEKPYPCDVCGQRFRFSNMLKAHKEKCFRVTSFVNVP PAVQIPLTTSPATPVPSVNTATT
PTPPINMNPVSTLPPRP IHPF SHLHIHPHPHHPHLP IPPVPHLPPPPALFKSEPLNHRGQSEDNFLRH LAEKN
SSAQHH

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FIGURE 547

CAAGAGATGATATTTATACATTGCAGATCAATCCTGATTCTGCAGTTAATCCGGAACATTTATCCTATTTCCACT
TTGTTGGACGAATAATGGGAATGGCTGTGTTTCATGGACATTATATTGATGGTGGTTTCACATTGCCTTTTTATA
AGCAATTGCTTGGGAAGTCAATTACCTTGGATGACATGGAGTTAGTAGATCCGGATCTTCACAACAGTTTAGTGT
GGATACTTGAGAATGATATTACAGGTGTTTTGGACCATACTTCTGTGTTGAACATAATGCATATGGTGAAATTA
TTCAGCATGAACTTAAACCAAATGGCAAAAGTATCCCTGTTAATGAAGAAAATAAAAAAGAATATGTCAGGCTCT
ATGTGAACTGGAGATTTTTACGAGGCATTGAGGCTCAATTCTGGCTCTGCAGAAAGGATTTAATGAAGTAATTC
CACAACATCTGCTGAAGACATTGATGAGAAGGAGTTAGAGCTCATTATTTGTGGACTTGGAAGATAGATGTTA
ATGACTGGAAGGTAAACACCCGGTTAAACACTGTACACCAGACAGCAACATTGTCAAATGGTTCTGGAAGCTG
TGGAGTTTTTGTATGAAGAGCGACGAGCAAGATTGCTTCAGTTGTGACAGGATCCTCTCGAGTGCCTCTGCAGG
GCTTCAAAGCATTGCAAGGTGCTGCAGGCCGAGACTCTTTACCATAACCAGATTGATGCCTGCACTAACAACC
TGCCGAAAGCCCACACTTGCTTCAATCGAATAGACATTCCACCCTATGAAAGCTATGAAAAGCTATATGAAAAGC
TGCTAACAGCCATTGAAGAAACATGTGGATTTGCTGTGGAATGACAAGCTTCAAGGATTTACCCAGGACTCTATT
TATACAACCCTGACTGACAGCTCCTTTTCAGCAGAGTTTCAAAGAATATGCTGAAATACAGGAAACACTCCCCC
CCCCCCCCTTTTTTTTTTTTTTTTTTACATTTTAGGACACTGTGAGGGGAAAGGACAATTTTGAAATTCCTTTTC
AAGGAAAAAAAAGGTCTTTATGCTTTGCCATGAGGCCACATTCAGCTGCTATTTAACTTAATATCTTGAACCTA
AAGAATGCTGACTTTTCCTACATTTCCAGAGTTAGGCAGTATTCTACACTTAAAGACTACTACTATTTTTATAAA
AGGTAATCTATTCAAATTTCTTCACAGATTTCAAGTCTCTCAAACATCAAGACAACCTTCAGCAGTCGGTACAAGT
CACATTTTCAATTTGATTGAATACATGATCTTGAACAGCTCCTGTACTTGCTCTTTGTAAAAAAAATAAAATTAT
TTTGAATTATTCAAAAAAAATAAAATTTAT

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FIGURE 548

AAAGGACCGAGGCGTGACGCGGACAGCAGATGGATCCCGCGGCCAGCAGCTGCATGAGGAGCCTCCAGCCCCCAG
CCCCCTGTCTGGGGCTGCCTTCGAAACCCCCACTCGGAAGGCAATGGGGCCTCAGGGCTACCCCACTACCCGCCCA
CCCCGTTCCTTCCACCAGAAACCAGACTTCCTGGCGACAGCGACGGCAGCGTACCCTGACTTCTCAGCCTCCT
GCCTGGCAGCCACCCACACAGCCTGCCCCAGGAGGAGCACATCTTCACTGAGCAGCACCCCGCTTTCCACAGT
CCCCCAACTGGCACTTCCCTGTCTCAGACGCCCGGCGCAGGCCCAACTCAGGCCCGGCAGGGGGTTCCAAGGAAA
TGGGGACCAGCAGCCTGGGCCTGGTGGACACCACAGGAGGCCAGGCGATGACTACGGGGTGCTTGGGAGCACTG
CCAATGAGACAGAGAAGAAATCATCCAGGCGGAGAAAGGAGAGTTCAAGTCAAAGTGTGGTTCCAGAACCAGAGG
ATGAAGTGAAGCGTGTGAAGGGAGGTAGCCCATCTCCCCCAATGGGCAGGACCCCTGAGGATGGGGACTCCACA
GCCTCTCCAAGTTCAAGTGAGATTCTGCATGGAGGAAAAATGACTAAGGACTGAGCCCCCTACCCAACTACCCC
CACCCCAATCCACCTTACCCTCTTCCCTTCCCCAGCCAGGGCAGCCTCTCCACATCTTTCCCTGACTCTTGGAT
ATGAAACTGCCCAGCATTCTGGGAGTCTTAGGATTTTCTAGGAAGTTCTGTCCAGCCTCTTAGCAGCCTCTTCC
CTAGGGCCTTTGCTCCCACTCTCATGGAATCAGACAGAGATCTTACCGGGCCGGATGAATCTGGAACAGCTT
CAGAGATACTGCTTCTCAGCGTCTCTTGGCTGCCACCCATGCCTCCTCTACCGCTGTTCTCCTAGGTCAGCCAG
GCCTCCTCCTGGTCTGGACACCACCTGGCCTGGTGGGAGAGGAGCTTTGGAACCAGCTGGCGACTCGGAAAGTAA
ATGCTTCAAAGGAAGGAAATGACAGAGACACACGCCCTTGGCCACCTTCCTCTGTAGGCTGCACATCTGAGGCT
TTGGGGCCCCCTTAGTTGTCCCGAAACCCCAAGAAAAATCAGAAATGAGGAGAGTCAAGGACAGCAACTCAGCTGCT
GCAAGCCAGAAACACATCCCTGTCTCAAATTTGTTGGCTAAGTGGAGACACTTCTGAGAAGTACTAGAGAAGA
CAGAAAAATAGCCCGATGTAGGTTTCGGTGTCCCATATAGGCCCGTCCACACAGGCTTGACTGGGTGGACAAGA
ATGAACCCATGACAGCACCTGCTGCTTCAAATCAAATCAATTTAGGGATACAGCAGGGGCTGTGGGCTGTGC
TCCAGAGAAAAGGAGCAGCTACTCCTTTTAAATCCACGATTTCTGGATTGAAAACCTGTCCAGATGCTGAGTTGT
TGGGCTGAACAACTAGGAGCTGAAAACAACGTAGAGGCTGGAAAGTGTCCCCTGCATTCTGGAGGGGAGGGGAGA
TAATAAGGAGGGCTGCTGGGTGAGGGCCTGGAGATGTGGAACCTGGAGTGGAAAGGTTCTCCAGTGACAGTGTCC
TGTGACTGCAAAAGGGGACAAGAAAAATCCCTCTTCTCCATGGGATGGATTTAAGCTCTTGCTGTGTGTTCTACA
AATGCTGTTATTTGTTGGGAGGAAATGCTAGGTTTTTGTGTGTGGACTGCCAGACCTCAGCCAGGTCTTCTGGAGA
TGACATTTGAGGACTGATGGCCAAAGAGCATGGGGGACTGAAGCCCTGGCTGCCTCAGCGCTCTGTCTCCCAACA
CCAGCTGGTGTGTCAGAGGGAGGTCAACGTGAGTTTGGATCTCTTGTACGCAGATGTAATCATTACATGTAAAA
ATAACCCACCTCCCCACCCCAAAAGGGCAAGAGCTGTGGAAAAATGATTGCCAAATGAGATGGCTGGTTAGAGC
ATGATTTTTTCTAAAGCATACTTCATATATTTCTTAAGATTACATCAAGCTAATTGTGCGAGCTCAATTCATT
TGTAAGAAAACCTCTCGGAGAAATAAAATCAATAAAAAGCCAAAAAATAAAG

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FIGURE 549

MDPAASSCMRSLQPPAPVWGCLRNP HSEGN GASGLPHYPPTPF SFHQKPDFLATATAAYPDFSASCLAATPHSLP
QEEHIFTEQHPAFPQSPNWHFPVSDARRRPNSGPAGGSKEMGTSSLGLVDTTGGPGDDYGVLGSTANETEKSSR
RRKESSGQSVVPEPKDEVEACEGRSAHLPQWAGP

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FIGURE 550

GGCACGAGGAGCGTTTCGTTTGGACTTCTCGACTTGAGTGCCCGCCTCCTTCGCCGCCGCTCTGCAGTCTCTCAG
CGCAGTTATGCCCAGTTCTTCCCGCTGTGGGGACACGACCACGGAGGAATCCTTGCTTCAGGGACTCGGGACCCT
GCTGGACCCCTTCCCTCGGGTTTAGGGGATGTGGGGACAGGAGAGAAAGTCAGGATCCCTAAGAGTCTTCCCTGCCT
GGATGGATGAGTGGCTTCTTCTCCACCTAGATTCTTCCACAGGAGCCAGCATACTTCTGAACATGGAGAGTGT
TGTTCCGCGCTGCCATTCTTATCCCGAGTCCCCAGGCCTTTCTGCAGAAAGCAGGCAAATCTCTGTGTCTTA
TGCCCAAACTGCCCAAGATGATGGAAGTTGGGGCCAAGCCAGCCCTCGGGCATTGTCCACTGCAGCAGTACA
CTACCAACAGATCAAAGAAACCCCTCCGGCCAGTGAGAAAGACAAAAGTCTAAGGCCAAGGTCCAACAGACTCC
TGATGGATCCCAGCAGAGTCCAGATGGCACACAGCTTCCGTCTGGACACCCCTTGCCCTGCCACAAGCCAGGGCAC
TGCAAGCAAATGCCCTTCTTGGCAGCACAGATGAATCAGAGAGGCAGCAGTGTCTTCTGCAAAGCCAGTCTTGA
GCTTCAGGAGGATGTGCAGGAAATGAATGCCGTGAGGAAAGAGGTTGCTGAAACCTCAGCAGGCCCCAGTGTGGT
TAGTGTGAAAACCGATGGAGGGGATCCAGTGGACTGCTGAAGAACTCCAGGACATTATGCAAAAGCAAAGACC
AGAAAGAGTGTCTCATCTTCTTCAAGATAACTTGCCAAAATCTGTTTCCACTTTTCAGTATGATCGTTCTTTGA
GAAAAAATTGATGAGAAAAAGAAATGACCACACCTATCGAGTTTTTAAACTGTGAACCGGCGAGCACACATCTT
CCCCATGGCAGATGACTATTAGACTCCCTCATCACCAAAAGCAAGTGTGAGTCTGGTGCAGTAATGACTACCT
AGGAATGAGTCGCCACCCACGGGTGTGTGGGGCAGTTATGGACACTTGAAACAACATGGTGTGGGGCAGGTGG
TACTAGAAATATTTCTGGAAGTAGTAAATTCATGTGGACTTAGAGCGGGAGCTGGCAGACCTCCATGGGAAAGA
TGCCGCACTCTTGTTCCTCGTGCTTGTGGCCAATGACTCAACCTCTTCACCTTGCTAAGATGATGCCAGG
CTGTGAGATTTACTCTGATTCTGGGAACCATGCCTCCATGATCCAAGGGATTGAAACAGCCGAGTGCCAAAGTA
CATCTTCGCCACAATGATGTGAGCCACCTCAGAGAACTGCTGCAAAGATCTGACCCCTCAGTCCCCAAGATTGT
GGCATTGAAACTGTCCATTCAATGGATGGGGCGGTGTGCCCACTGGAAGAGCTGTGTGATGTGGCCCATGAGTT
TGGAGCAATCACCTTCGTGGATGAGGTCCACGCAGTGGGGCTTTATGGGGCTCGAGGCGGAGGGATTGGGGATCG
GGATGGAGTCATGCCAAAATGGACATCATTTCTGGAACACTTGGCAAAGCCCTTTGGTTGTGTGGAGGGTACAT
CGCCAGCACGAGTTCTCTGATTGACACCGTACGGTCTATGCTGCTGGCTTCATCTTCACCACCTCTCTGCCACC
CATGCTGCTGGCTGGAGCCCTGGAGTCTGTGCGGATCCTGAAGAGCGCTGAGGGACGGGTGCTTCGCCGCCAGCA
CCAGCGCAACGTCAAACCTCATGAGACAGATGCTAATGGATGCCGGCCTCCCTGTTGTCCACTGCCCCAGCCACAT
CATCCCTGTGCGGGTTGCAGATGCTGCTAAAAACACAGAAGTCTGTGATGAACTAATGAGCAGACATAACATCTA
CGTGCAAGCAATCAATTACCCCTACGGTGCCCCGGGGAGAAGAGCTCCTACGGATTGCCCCACCCCTCACCACAC
ACCCAGATGATGAACTACTTCTTGAGAATCTGCTAGTCACATGGAAGCAAGTGGGGCTGGAAGTGAAGCCTCA
TTCCTCAGCTGAGTGCAACTTCTGCAGGAGGCCACTGCATTTTGAAGTGATGAGTGAAAGAGAGAAGTCTATTT
CTCAGGCTTGAGCAAGTTGGTATCTGCTCAGGCCTGAGCATGACCTCAATTATTTACCTTAACCCAGGCCATTA
TCATATCCAGATGGTCTTCAGAGTTGTCTTTATATGTGAATTAAGTTATATTAAATTTAATCTATAGTAAAAAC
ATAGTCTCGAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 551

MESVVRRCPFLLSRVPQAFLQKAGKSLLFYAQNCPKMMEVGAKPAPRALSTA AVHYQQIKETPPASEKDKTAKAV
QQTPDGSQQSPDGTQLPSGHPLPATSQGTASKCPFLAAQMNQRGSSVFCKASLELQEDVQEMNAVRKEVAETSAG
PSVSVKTDGGDPSGLLKNFQDIMQKQRPERSHLLQDNLPKSVSTFYDRFFEKKIDEKKNDHTYRVFKTVNRR
AHIFPMADDYSDSLITKKQVSVWCSDYLGMSRHRVCGAVMDTLKQHAGAGGTRNISGTSKFHVDLERELADL
HGKDAALLFSSCFVANDSTLFTLAKMMPGCEIYSDSGNHASMIQGIRNSRVPKYIFRHNDVSHLRELLQRSDPSV
PKIVAFETVHSMDGAVCPLEELCDVAHEFGAITFVDEVHAVGLYGARGGGIGDRDGVMPKMDIISGTLGKAFGCV
GGYIASTSSLIDTVRSYAAGFIFTTSLPPMLLAGALESVRILKSAEGRVLRQHQRNVKLMRQMLMDAGLPVVHC
PSHIIPVRVADAAKNTEVCDELMSRHNIYVQAINYPTVPRGEELLRIAPTPHHTPQMMNYFLENLLVTWKQVGLE
LKPHSSAECNFCRRPLHFEVMSEREKSYFSGLSKLVSAQA

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FIGURE 552

AGCCTACGCACGAAAGTGACTAGGGAGGAAGGATATTATAAAGTGATGCAAACAGAAATTCCACCAGCCTCCATG
TATCATCATGTGTCATAACTCAGTCAAGCTCAGTGAGCATTCTCAGCACATTGCCTCAACAGCTTCAAGGTGAGC
CAGCTCAAGACTTTGCTCTCCACCAGGCAGAAGATGACAGACTGTGAATTTGGATATATTTACAGGCTGGCTCAG
GACTATCTGCAGTGGTCCTACAGATACCACAACCTGGATCAGGTCCAAGCAAAACGTCCAGAGTGCTACAAAAT
GTTGCGTTCTCAGTCCAAAAGAAGTGGAAAAGAATCTGAAGTCATGCTTGGACAATGTTAATGTTGTGTCCGTA
GACACTGCCAGAACTATTCAACCAAGTGATGGAAAAGGAGTTTGAAGACGGCATCATTAACTGGGGAAGAATT
GTAACCATATTTGCATTTGAAGGTATTCTCATCAAGAACTTCTACGACAGCAAATTGCCCGGATGTGGATACC
TATAAGGAGATTTCATATTTTGTGCGGAGTTCATAATGAATAACACAGGAGAATGGATAAGGCAAAACGGAGGC
TGGGAAAATGGCTTTGTAAAGAAGTTGAACCTAAATCTGGCTGGATGACTTTTCTAGAAGTTACAGGAAAGATC
TGTGAAATGCTATCTCTCTGAAGCAATACTGTGACAGAAAGGACACTCCATATTGTGAAACCGGCTAATTT
TTCTGACTGATATGGAAACGATTGCCAACACATACTTCTACTTTTAAATAAACAACTTTGATGATGTAACCTTGAC
CTCCAGAGTTATGGAAATTTGTCCCATGTAATGAATAAATTGTATGTATTTTCTCT

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FIGURE 553

MTDCEFGYIYRLAQDYLCVLPQIPQPGSGPSKTSRVLQNVAFSVQKEVEKNLKSCLDNVNVVSVDTARTLFNQVM
EKEFEDGIINWGRIVTIFAFEGILIKLLRQQIAPDVDTYKEISYFVAEFIMNNTGEWIRQNGGWENGFWKKFEP
KSGWMTFLEVTGKICEMLSLLKQYC

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FIGURE 554

GAATTCCTGAGGCGGGAGACCGGTGGTCTGCACCGTCCTGGAGGGAGATATGAGTGGCTGGACTCTCAGCCAGC
CACTGGGATGTGTTCTGGGCTTTGGACCTTGAGCCGGAGAGAGCTCCCGAGAGGAGGCGGCGCACGTTCTGTTCTT
CTGAGGGGACGGTAGATTTGGGGGTTTTCTCTAGGATTCTCGCGCCGTTTCTCTGAAGAAACAGAACCAGAG
AGGGAAGGTGACCTGAAAGTCACTGAATAATTTTTTAGAGCTGAACAAGAATCCAAGCCTGCAACTGCAACTGC
AGAGACGAGAGATCTTCTGCTGTCTATACTCTTGGAAGCACATCCTAAGATCTTTCAGATTATCTGTGGAAG
GAGAATGCCTAAAGTCAAACGAAGCCGAAAGCACCCAGGATGGCTGGGAGTTGATTGAGCCAACACTGGATCA
ATTAGATCAAAGATGAGAGAAGCTGAAACAGAACCGCATGAGGGAAAGAGGAAAGTGAATCTCTGTGGCCCAT
CTTCAGGATCCACCACCAGAAAACCCGCTACATCTTCGACCTCTTTTACAAGCGGAAAGCCTACAGCAGAGAACT
CTTAGATATATGTTATAAAGAAGGCTTAGCAGACAAAAACCTGTTGGCAAAATGGAAAAAGCAAGGTATAGGAAA
CTTGTGCTGCCTGCGGTGCATTTCAGACACGGGACACCAACTTCGGGACGAACTGCATCTGCCGCGTGCCCAAAAG
CAAGCTGGAAGTGGGCCGCATCATCGAGTGCACACACTGTGGCTGCCGTGGCTGCTCTGGCTGACGGTGGCTGCT
GCTCCACCCTGGACTCTGGACTTCGCAGGTTCTTGCCGTGTCACGCCACCCCTTCCTGGGAGCAGCGAGCAGTG
CCCCAGGCCCGAGTTGGAGCACGGTCTCTATGGGGAAGCGTTCGCTGTCTATCAGCTGTGATTTGTAAAAATAAA
ATCTTTAAATCTCTCGAAAAAAAAAAAAA

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FIGURE 555

MPKVKRSRKAPQDGWELIEPTLDQLDQKMREAETEPHEGKRKVESLWPIFRIHHQKTRYIFDLFYKRKAYSRELL
DICYKEGLADKNLLAKWKKQGIGNLCCLRCIQTRDTNFGTNCICRVPSKLEVGRIEEECTHCGCRGCSG

CCGCTATGCGGGTCCCTGTTCCGGAGAGACCATGTGCCCTGGCGCAGCTCTTCTTGCAGTCGGGCACGGCCTACG
AGTGCCTCAGCGCCCTGGGCGAGAAAAGCCTGGTCCAGTTCCGAGACCTCAACCAGAACGTAAGTTCTTTCCAAA
GAAAATTTGTTGGTGAGGTGAAGAGGTGTGAAGAGCTAGAGCGAATATTGGTGTATTTGGTACAGGAAATTAATA
GAGCTGATATTTCCCTTCTGTAAGGAGAGGCCAGCCCTCTGCGCCACCCCTGAAACAGGTTCTAGAAATGCAGG
AGCAGTTGCAGAAGCTCGAGGTTGAAGTGTGAGAGAGTCACTAAGAACAAGGAGAACTGAGGAAAACTTGCTGG
AACTGATAGAGTACACTCACATGCTGAGAGTGACAAAGACCTTTGTGAAACGCAACGTTGAGTTTGAACCCACTT
ATGAAGAATTCCCTTCCCTTAGAGAGCGATTCTTTGTTGGATTACAGCTGTATGCAGAGGCTGGGAGCAAACTGG
GATTTGTGTCTGGCCTAATTAACCAAGGAAAAGTGGGAAGCATTTGAAAAAATGTTGTGGAGAGTCTGCAAAGGGT
ACACCATCGTGTCTTATGCAGAACTGGATGAATCCCTTGAAGACCCCTGAAACAGGGGAAGTCATAAAATGGTATG
TCTTTTTAATATCCTTTTGGGGAGAGCAGATTGGCCACAAGGTTAAGAAGATATGTGATTGCTACCACTGCCACG
TGTACCCCTATCCAAACACAGCCGAGGAGCGGAGGGAGATCCAGGAGGGGCTGAACACCCGCATCCAGGATCTCT
ACACTGTACTGCACAAAACCGAGGACTATTTGAGGCAAGTGCTATGTAAAGCCGCCGAGTCTGTCTACAGCCGTG
TGATCCAGGTGAAGAAAATGAAGGCCATCTATCACATGCTGAACATGTGCAGCTTTGACGTGACCAACAAGTGCC
TCAATTGCTGAAGTCTGGTGTCCCGAGGCGGATCTGCAGGACCTGCGCCGGGCACTGGAGGAGGGCTCGAGAGAGA
GTGGTGCTACAATCCCTCATTCATGAATATAATCCCCACAAAAGAAACACCCCCCACTCGGATCCGCACCAACA
AATTCACCGAGGGATTTCAGAACATCGTGGATGCTTATGGAGTCGGAAGCTACAGAGAAGTCAATCCAGCTCTCT
TTACCATCATCACCTTCCCGTTTTTATTGCTGTGATGTTTGGAGACTTCGGACATGGCTTTGTGATGTTTTTAT
TTGCCCTCTTGTGGGTGTTAAATGAAATCATCCAGACTAAATCAGTCACAAGAGATCATGAGGATGTTTTTTA
ATGGCCGGTACATCCTCCTGCTGATGGGGCTGTTCTCAGTGTAACCTGGCCTCATCTACAACGACTGCTTTTCAA
AGTCAGTCAACCTGTTTCGGCTCTGGGTGGAACGTGTTCGGCCATGTACAGCTCCAGCCACCCACCCGCAGAGCATA
AGAAGATGGTGCTTTGGAACGACAGCGTCGTTAGACACAACAGCATTTTGCAGCTGGATCCAAGCATTCTCGGAG
TGTTCCGAGGCCCTTATCCCTTGGCATTGATCCTATTTGGAACCTTGGCCACAAATCGCCTCACTTTTCTAACT
CTTTCAAAATGAAAATGTCCGTGATTTTAGGAATCATTCATATGACTTTTGGAGTCATTCTGGGAATATTTAAC
ACTTGCACCTTCAGGAAGAAGTTCAACATTTACCTGGTTTCCATCCCGAACTTCTCTTCATGCTCTGTATCTTTG
GATACCTTATATTTATGATTTTCTACAAGTGGCTGGTTTTTTTTCAGCAGAAACCTCCAGAGTTGCTCCCAGCATTC
TGATTGAATTTATTAACATGTTTTTATCCCGAGCAGTAAACAAGTGGCCTTTACACAGGGCAGGAGTATGTC
AGAGAGTGCTGCTGGTTGTACAGCATTGTCTGTCCCTGTCTCTTCTTGGGAAAGCCACTGTTTTTGTGTGGC
TTCACAATGGGCGTAGTTGCTTCGGGTGAACCGGAGTGGCTACACACTTATAAGGAAAGATAGTGAGGAAGAAG
TTTCATTGCTGGGAAGCCAAGATATAGAAGAGGGGAAATCACCAGGTGGAAGATGGATGTAGAGAAATGGCGTGTG
AAGAGTTTAATTTTGGAGAAAATATTAATGACCCAAGTAATCCATTCCATCGAGTACTGTCTGGGATGCATCTCCA
ACACCGCCTCCTACCTGAGGCTCTGGGCGCTTAGCCTGGCTCACGCACAGTTGTCTGATGTCTGTGGGCCATGC
TGATGCGCGTGGGCCTCCGCGTTGACACCACCTATGGCGTCTTGCTACTGCTCCCGGTTATCGCGCTCTTTGCAG
TTTTGACCATTTTCACTCTCTGATCATGGAAGGGCTTTCTGCGTTTCTTTCAGCCATACGCCTCCACTGGGTAG
AATTTCAGAACAAATTCTACGTTGGTGCAGGCACCAAATTTGTTCCCTTTCTCATTCAGTCTACTTTTCATCAAAGT
TCAATAACGACGACAGTGTGGCATGATCATATTGCTGTAACCAACAAGCTTTTCAGATTTATGGAGAATGACCATG
TTATAGACTTTCACTTATGTCAGATTTATGATAGGAAAAATTCATCTTCATTACTGCCTTATGACATAGCCAA
TAATTCGTGAAGATATAC

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FIGURE 557

MGSLFRSETMCLAQLFLQSGTAYECLSALEGEKGLVQFRDLNQNVSSFQRKFVGEVKRCEELERILVYLVQEI
NRA
DIPLPEGEASPPAPPLKQVLEMQEQLQKLEVELREVTKNKEKLRKNLLELIEYTHMLRVTKTFVKRNVEFEPT
YE
EFP SLESDSLDDYSCMQR LGAKLGFVSGLINQ GKVEAFEKMLWRVCKGYTIVSYAELDESLED PETGEVI
KWYVF
LISFWGEQIGHKVKKICDCYHCHVYPYPNTAEERREIQEGLNTRIQLDLYTVLHKTEDYLRQVLCKAAESV
YSRVI
QVKMKKAIYHMLNMCSFDVTNKCLIAEVWCPEADLQDLRRALEEGSRESGATIP SFMNI IPTKETPPTRI
RTNKF
TEGFQNI VDAYGVGSYREVN PALFTIITFPFLFAVMFGDFGHGFVMFLFALLWVLNENHPRLNQSQEIM
RMFFNG
RYILLMGLFSVYTGLIYNDCFSKSVNLFGSGWNVSAMYSSSHPPAEHKKMVLWNDSVVRHNSILQLDPS
IPGVF
RGPYPLGIDPIWNLATNRLTFLNSFKMKMSVILGIIHMTFGVILGIFNHLHFRKKFNIYLVSIPELLF
MLCIFGY
LIFMIFYKWLVSFSAETSRVAPSILIEFINMFLFPASKTSGLYTGQEYVQRVLLVVTALSVPVFLGKPL
FLLWLH
NGRSCFGVNRSGYTLIRKDSEEEVSLLSQDIEEGNHQVEDGCREMACEEFNFGEILMTQVIHSIEYCLG
CISNT
ASYLRLWALS LAHAQLSDVLWAMLMRVGLRVDTTYGVLLLLPVIALFAVLTIFILLIMEGLSAFLHAIRL
HWVEF
QNKFYVGAGTKFVFFSFSLLSSKFNNDD SVA

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FIGURE 558

CTCTCTCTCTATCTCTCTCAGAAATGACAATTCTAGGTACAACCTTTTGGCATGGTTTTTTCTTTACTTCAAGTCGT
TTCTGGAGAAAAGTGGCTATGCTCAAAATGGAGACTTGAAGATGCAGAACTGGATGACTACTCATTCTCATGCTA
TAGCCAGTTGGAAGTGAATGGATCGCAGCATTCACTGACCTGTGCTTTTGAGGACCCAGATGTCAACACCACCAA
TCTGGAATTTGAAATATGTGGGGCCCTCGTGGAGGTAAAGTGCCTGAATTTTCAGGAACTACAAGAGATATATTT
CATCGAGACAAAGAAATCTTACTGATTGGAAAGAGCAATATATGTGTGAAGGTTGGAGAAAAGAGTCTAACCTG
CAAAAAATAGACCTAACCACTATAGTTAAACCTGAGGCTCCTTTTGACCTGAGTGTCTATCTATCGGGAAGGAGC
CAATGACTTTGTGGTGACATTTAATACATCACACTTGCAAAAGAAGTATGTAAAAGTTTAAATGCATGATGTAGC
TTACCGCCAGGAAAAGGATGAAAACAAATGGACGCATGTGAATTTATCCAGCACAAAGCTGACACTCCTGCAGAG
AAAGCTCCAACCGGCAGCAATGTATGAGATTAAAGTTCGATCCATCCCTGATCACTATTTTAAAGGCTTCTGGAG
TGAATGGAGTCCAAGTTATTACTTCAGAACTCCAGAGATCAATAATAGCTCAGGGGAGATGGATCCTATCTTACT
AACCATCAGCATTTTGTAGTTTTTTCTGTGCTCTGTTGGTCATCTTGGCCTGTGTGTTATGGAAAAAAGGAT
TAAGCCTATCGTATGGCCAGTCTCCCGATCATAAGAAGACTCTGGAACATCTTTGTAAGAAACCAAGAAAAA
TTTAAATGTGAGTTTCAATCCTGAAAGTTTCTGGACTGCCAGATTCTAGGGTGGATGACATTCAAGCTAGAGA
TGAAGTGGAAAGGTTTTCTGCAAGATACGTTTCTCAGCAACTAGAAGAACTGAGAAGCAGAGGCTTGGAGGGGA
TGTGCAGAGCCCCAAC TGCCCATCTGAGGATGTAGTCGTCACCTCCAGAAAGCTTTGGAAGAGATTATCCCTCAC
ATGCCCTGGCTGGGAATGTCAGTGCATGTGACGCCCCCTATTCTCTCCTCTTCCAGGTCCCTAGACTGCAGGGAGAG
TGGCAAGAATGGGCCTCATGTGTACCAGGACCTCCTGCTTAGCCTTGGGACTACAAACAGCACGCTGCCCCCTCC
ATTTTCTCTCCAATCTGGAATCCTGACATTGAACCCAGTTGCTCAGGGTCAGCCCATTCTTACTTCCCTGGGATC
AAATCAAGAAGAAGCATATGTACCATGTCCAGCTTCTACCAAAACCAGTGAAGTGTAAAGAAACCCAGACTGAAC
TTACCGTGAGCGACAAAGATGATTTAAAAGGGAAGTCTAGAGTTCCTAGTCTCCCTCACAGCACAGAGAAGACAA
AATTAGCAAAACCCCACTACACAGTCTGCAAGATTCTGAAACATTGCTTTGACCACCTCTCCTGAGTTCAGTGGC
ACTCAACATGAGTCAAGAGCATCCTGCTTCTACCATGTGGATTGGTGCACAAGGTTTAAAGGTGACCCAATGATTC
AGCTATTT

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FIGURE 559

MTILGTTFGMVFSLLQVVSGESGYAQNGDLEDAELDDYSFSCYSQLEVNGSQHSLTCAFEDPDVNTITNLEFEICG
ALVEVKCLNFRKLQEIYFIETKKFLLIGKSNICVKVGEKSLTCKKIDLTITIVKPEAPFDLSVIYREGANDFVVTF
NTSHLQKKYVKVLMHDVAYRQEKDENKWITHVNLSSTKLTLLQKRLQPAAMYEEKVRSIPDHYFKGFWSEWSPSY
FRTPEINNSSGEMDPILLTISILSFFSVALLVILACVLWKKRIKPIVWPSLPDHKKTLEHLCKKPRKLNVSFNP
ESFLDCQIHRVDDIQARDEVEGFLQDTFPQQLSESEKQRLGGDVQSPNCPSEDVVVTPESEFGRDSSLTCLAGNVS
ACDAPILSSSRSLDCRESGKNGPHVYQDLLLLSLGTTNSTLPPFSLQSGILTLPVAQGPILTSLGSGNQEAYV
TMSSFYQNNQ

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FIGURE 560

ACTCGTCTCTGGTAAAGTCTGAGCAGGACAGGGTGGCTGACTGGCAGATCCAGAGGTTCCCTTGGCAGTCCACGC
CAGGCCCTTACCATGGATCAGTTCCCTGAATCAGTGACAGAAAACCTTTGAGTACGATGATTGGCTGAGGCCTGT
TATATTGGGGACATCGTGGTCTTTGGGACTGTGTTCCCTGTCCATATTCTACTCCGTCATCTTTGCCATTGGCCTG
GTGGGAAATTTGTTGGTAGTGTGTTGCCCTACCAACAGCAAGAAGCCCAAGAGTGTACCAGACATTTACCTCCTG
AACCTGGCCTTGCTGAICTGCTGTTTGTAGCCACTTTGCCCTTCTGGACTCACTATTTGATAAATGAAAAGGGC
CTCCACAATGCCATGTGCAAATTCACCTACCGCCTTCTTCTTCATCGGCTTTTTTGAAGCATATTCTTCATCACC
GTCATCAGCATTGATAGGTACCTGGCCATCGTCTGGCCGCCAACTCCATGAACAACCGGACCGTGCAGCATGGC
GTCACCATCAGCCTAGGCGTCTGGGCAGCAGCCATTTTGGTGGCAGCACCCAGTTTCATGTTACAAAAGCAGAAA
GAAAATGAATGCCTTGGTACTACCCCGAGGTCTCCAGGAAATCTGGCCCGTGCTCCGCAATGTGGAACAAAT
TTTCTTGGCTTCTACTCCCCCTGCTCATTATGAGTTATTGCTACTTCAGAATCATCCAGACGCTGTTTTCTGTC
AAGAACCACAAGAAAGCCAAAGCCATTAACTGATCCTTCTGGTGGTCATCGTGTTTTTCTCTTCTGGACACCC
TACAACGTTATGATTTTTCTGGAGACGCTTAAGCTCTATGACTTCTTTCCAGTTGTGACATGAGGAAGGATCTG
AGGCTGGCCCTCAGTGTGACTGAGACGGTTGCATTTAGCCATTGTTGCCTGAATCCTCTCATCTATGCATTTGCT
GGGGAGAAGTTCAGAAGATACCTTTACCACCTGTATGGGAAATGCCTGGCTGTCTGTGTGGCGCTCAGTCCAC
GTTGATTTCTCCTCATCTGAATCACAAGGAGCAGGCATGGAAGTGTTCTGAGCAGCAATTTTACTTACCACAG
AGTGATGGAGATGCATTGCTCCTTCTCTTGAAGGGAATCCCAAAGCCTTGTGTCTACAGAGAACCTGGAGTTCCTG
AACCTGATGCTGACTAGTGAGGAAAGATTTTGTGTTATTCTTACAGGCACAAAATGATGGACCCAATGCACA
CAAAACAACCTAGAGTGTTGTGAGAATTGTGCTCAAAATTTGAAGAATGAACAAATTGAATCTTTGAATGAC
AAAGAGTAGACATTTCTCTTACTGCAAATGTCATCAGAACTTTTGGTTTGCAGATGACAAAATTCAACTCAGA
CTAGTTTAGTTAAATGAGGGTGGTGAATATTGTTTCATATTGTGGCACAAGCAAAAGGGTGTCTGAGCCCTCAAAG
TGAGGGGAAACCAGGGCCTGAGCCAAGCTAGAATTCCCTCTCTGACTCTCAAATCTTTTAGTCATTATAGATC
CCCCAGACTTTACATGACACAGCTTTATCACCAGAGAGGGACTGACACCCATGTTTCTCTGGCCCCAAGGAAAA
TTCCCAGGGAAGTGCTCTGATAGGCCAAGTTTGATCAGGTGCCCATCCCTGGAAGGTGCTGTTATCCATGGGGA
AGGGATATATAAGATGGAAGCTTCCAGTCCAATCTCATGGAGAAGCAGAAATACATATTTCAAGAAAGTTGGATG
GGTGGGTACTATTCTGATTACACAAAACAAATGCCACACATCACCCCTTACCATGTGCCTGATCCAGCCTCTCCCC
TGATTACACCAGCCTCGTCTTCATTAAGCCCTCTTCCATCATGTCCCCAAACCTGCAAGGGCTCCCCACTGCCTA
CTGCATCGAGTCAAAACTCAAATGCTTGGCTTCTCATACGTCCACCATGGGGTCTACCAATAGATTCCCCATTG
CCTCCTCCTTCCCAAAGGACTCCACCCATCCTATCAGCCTGTCTCTTCCATATGACCTCATGCATCTCCACCTGC
TCCCAGGCCAGTAAGGGAAATAGAAAAACCTGCCCCCAAATAAGAAGGGATGGATTCCAACCCCAACTCCAGTA
GCTTGGGACAAATCAAGCTTCAGTTTCTGGTCTGTAGAAGAGGGATAAGGTACCTTTCACATAGAGATCATCCT
TTCCAGCATGAGGAACTAGCCACCAACTCTTGAGGTCTCAACCCTTTTGTCTGCCTCTTAGACTCTGCTTTCC
ACACCTGCACTGCTGTGCTGTGCCCAAGTTGTGGTGTGACAAAGCTTGAAGAGCCTGCAGGTGCCTTGGCCGC
GTGCATAGCCCAGACACAGAAGAGGCTGGTTCTTACGATGGCACCCAGTGAGCACTCCCAAGTCTACAGATGAT
AGCCTTCCGTAACCCAACTCTCCTGGACTGCCTTGAATATCCCTCCAGTCACCTTGTGCAAGCCCTGCCCAT
CTGGGAAATACCCCATCATTATGCTACTGCCAACCTGGGGAGCCAGGGCTATGGGAGCAGCTTTTTTTCCCC
CCTAGAAACGTTTGAACAATGTAAACTTTAAAGCTCGAAAACAATTGTAATAATGCTAAAGAAAAAGTCATCC
AATCTAACACATCAATATTGTCAATCCTGTATTACCCGTCAGACCTTGTTCACACTCTCACATGTTTAGAGT
TGCAATCGTAATGTACAGATGGTTTTATAATCTGATTTGTTTTCTCTTAACGTTAGACCACAAATAGTGCTCGC
TTTCTATGTAGTTTGGTAATTATCATTTTAGAAGACTCTACCAGACTGTGTATTCAATTGAAGTCAGATGTGGTAA
CTGTTAAATTGCTGTGTATCTGATAGCTCTTTGGCAGTCTATATGTTGTATAATGAATGAGAGAATAAGTCATG
TTCCTTCAAGATCATGTACCCCAATTTACTTGGCATTACTCAATTGATAAACATTTAACTTGTTCATGTTTA
GCAATACATATTTTATAGAACTTC

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FIGURE 561

MDQFPESVTENFEYDDLAEACYIGDIVVFGTVFLSIFYSVIFAIGLVGNLLVVFALTNSKKPKSVTDIYLLNLAL
SDLLFVATLPFWTHYLINEKGLHNAMCKFTTAAFFFIGFFGSIFFITVISIDRYLAIVLAANSMMNNRTVQHGVTIS
LGVWAAAILVAAPQFMFTKQKENECLGDYPEVLQEIWPVLRNVETNFLGFLPLLIMSYCYFRI IQTLFSCKNHK
KAKAIKLILLVVIVFFLFWTPYNVMIFLETCLKLYDFPSCDMRKDLRLALSVTETVAFSHCCLNPLIYAFAGEKF
RRYLYHLYGKCLAVLCGRSVHVD FSSSESQSRHGSVLSSNFTYHTSDGDALLL

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FIGURE 562

CTACCCCTTTGTGAGCAGTCTAGGACTTTGTACACCTGTTAAGTAGGGAGAAGGCAGGGGAGGTGGCTGGTTTAA
GGGGAACTTGAGGGAAGTAGGGAAGACTCCTCTTGGGACCTTTGGAGTAGGTGACACATGAGCCCAGCCCCAGCT
CACCTGCCAATCCAGCTGAGGAGCTCACCTGCCAATCCAGCTGAGGCTGGGCAGAGGTGGGTGAGAAGAGGGAAA
ATTGCAGGGACCTCCAGTTGGGCCAGGCCAGAAGCTGCTGTAGCTTTAACCAGACAGCTCAGACCTGTCTGGAGG
CTGCCAGTGACAGGTTAGGTTTAGGGCAGAGAAGAAGCAAGACCATGGTGGGGAAGATGTGGCCTGTGTTGTGGA
CACTCTGTGCAGTCAGGGTGACCGTCGATGCCATCTCTGTGAAACTCCGCAGGACGTTCTCGGGCTTCGCAGG
GAAAGAGTGTCACCCCTGCCCTGCACCTACCACACTTCCACCTCCAGTCGAGAGGGACTTATCAATGGGATAAGC
TCCTCTCACTCATACGGAAAGGGTGGTCATCTGGCCGTTTTCAAACAAAACTACATCCATGGTGAGCTTTATA
AGAATCGCGTCAGCATATCCAACAATGCTGAGCAGTCCGATGCCTCCATCACCATTGATCAGCTGACCATGGCTG
ACAACGGCACCTACGAGTGTTCTGTCTCGTGTATGTCAGACCTGGAGGGCAACACCAAGTCAGTGTCGCCCTGT
TGGTCTCGTGCCACCCTCCAAACCAGAATGCGGCATCGAGGGAGAGACCATAATTGGGAACAACATCCAGCTGA
CCTGCCAATCAAAGGAGGGCTCACCACCCCTCAGTACAGCTGGAAGAGGTACAACATCCTGAATCAGGAGCAGC
CCCTGGCCCAGCCAGCCTCAGGTCAGCTGTCTCCCTGAAGAATATCTCCACAGACACATCGGGTTACTACATCT
GTACCTCCAGCAATGAGGAGGGGACGCAGTTCTGCAACATCAGCGTGGCCGTCAGATCTCCCTCCATGAACGTGG
CCCTGTATGTGGGCATCGCGGTGGGCGTGGTTGCAGCCCTCATTATCATTGGCATCATCATCTACTGCTGCTGCT
GCCGAGGGAAGGACGACAACACTGAAGACAAGGAGGATGCAAGGCCGAACCGGGAAGCCTATGAGGAGCCACCAG
AGCAGCTAAGAGAACTTTCCAGAGAGAGGGAGGAGGAGGATGACTACAGGCAAGAAGAGCAGAGGAGCACTGGGC
GTGAATCCCCGACCACCTCGACCAGTGAAGGCCAGCAGCAGAGGGCGCGGAGGAAGGGTTAGGGGTTTATTTC
TCCCGCTTCTGGCCTCCCTTCTCCTTTCTAAGCCCTGTTCTCCTGTCCCTCCATCCCAGACATTGATGGGGACA
TTTCTTCCCAGTGTCAGCTGTGGGGAACATGGCTGGCCTGGTAAGGGGGTCCCTGTGCTGATCCTGCTGACCTC
ACTGTCTGTGAAGTAACCCCTCCTGGCTGTGACACCTGGTGCGGGCCTGGCCCTCACTCAAGACCAGGCTGCAG
CCTCCACTTCCCTCGTAGTTGGCAGGAGCTCCTGGAAGCACAGCGCTGAGCATGGGGCGCTCCCACTCAGAACTC
TCCAGGGAGGCGATGCCAGCCTTGGGGGGTGGGGGCTGTCTGCTCACCTGTGTGCCAGCACCTGGAGGGGCAC
CAGGTGGAGGGTTTGCACTCCACACATCTTCTTGAATGAATGAAAGAATAAGTGAGTATGCTTGGGCCCTGCAT
TGGCCTGGCCTCCAGCTCCCCTCCCTTTCCAACCTCACTTCCCGTAGCTGCCAGTATGTTCCAAACCCCTCCTGG
GAAGGCCACCTCCCCTCCTGTGCACAGGCCCTGGGGAGCTTTTGCCACACACTTTCCATCTCTGCCTGTCAA
TATCGTACCTGTCCCTCCAGGCCATCTCAATCACAAGGATTCTCTAACCCTATCCTAATTGTCCACATACGT
GGAAACAATCCTGTTACTCTGTCCCACGTCCAATCATGGGCCACAAGGCACAGTCTTCTGAGCGAGTGCTCTCAC
TGTATTAGAGCGCCAGCTCCTTGGGGCAGGGCCTGGGCCTCATGGCTTTTGCTTTCCCTGAAGCCCTAGTAGCTG
GCGCCCATCCTAGTGGGCACTTAAGCTTAATTGGGGAACTGCTTTGATTGGTTGTGCCTTCCCTTCTCTGGTCT
CCTTGAGATGATCGTAGACACAGGGATGATCCCACCCAAACCCACGTATTCAATCAGTGAGTTAAACACGAATT
GATTTAAAGTGAACACACACAAGGGAGCTTGCTTGACAGATGGTCTGAGTTCTTGIGTCTGGTAAATCCTCTCCA
GGCCAGAATAATTGGCATGTCTCCTCAACCCACATGGGGTTCTGGTTGTTCTGCATCCCGATAACCTCAGCCCT
GGCCCTGCCAGCCATTGGGCTCTGGTTTTCTGGTGGGGCTGTCTGTGCCCTCCCACAGCCTCCTTCTGTT
TGTCGAGCATTTCTTCTACTCTTGAGAGCTCAGGCAGCGTTAGGGCTGCTTAGGTCTCATGGACCAGTGGCTGGT
CTCACCCAACTGCAGTTTACTATTGCTATCTTTCTGGATGATCAGAAAAATAATTCCATAAATCTATTGTCTAC
TTGCGATTTTTTAAAAAATGTATATTTTATATATATTGTTAAATCCTTTGCTTCATTCCAAATGCTTTCAGTAA
TAATAAAATTGTGGGTGG

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FIGURE 563

MVGKMWPVLWTLCAVRVTVD AISVETPQDVLRASQGKSVTL PCTYHTSTSSREGLIQWDKLLLTHTERVVIWPF S
NKNYIHGELYKNRVSI SNNAEQSDASITIDQLTMADNGTYECSVSLMSDLEGNTKSRVRL LVLP PSKPECGIEG
ETII GNNIQLTCQSKEGSPTPQYSWKRYN ILNQEQPLAQ PASGQP VSLKNISTDTSGYYICTSSNEEGTQFCNIT
VAVRSPSMNVALYVGIAVG VVAALIIIGII IYCCCCRGKDDNTEDKEDARPNREAYEEPPEQLRELSRERE EDD
YRQEEQRSTGRES PDHLDQ

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FIGURE 564A

GAATTCGGGGCAGCATCATCAAGGCACATAGATTCTCTCTTTGAACAATGCAGCTGCTGCAGGGGATGGGGAAGG
GATGGCACTGGCAATTCAAGACTGCCTTTCTACTTCTTCAGTGCCTCTTTCACCAATATGAAGTTAAAACCAGG
ATCCTTCAAACCAAAAATGTGGTGGAAAGAAAACCGTGTCTTTCAGCAGCATGCCATCGGAAAAGAAAATTA
GCAGTGCAAATGACTGCATCAGCTTCATGCAAGCTGGCTGTGAGTTGAAGAAAGTCCGGCCAAATCTCGCATT
ACAACCGTTTTTCTACTCTGGACACAGACCTTCAAGCTCTTCGCTGGGAACCTTCAAAGAAAGACCTCGAGAAAG
CCAAGCTTGATATTTCTGCCATAAAAGAGATCAGACTGGGGAAAAACACGGAAACATTTACAAACAATGGCCTTG
CTGACCAGATCTGTGAGGACTGTGCCTTTTCCATACTCCACGGGGAAAACTATGAGTCTCTGGACCTAGTTGCCA
ATTCAGCAGATGTGGCAAACATCTGGGTGTCTGGGTACGGTACCTGGTTTTCTCGAAGTAAGCAGCCTCTTGATT
TTATGGAGGGCAACCAGAACACACCACGGTTCAITGGTTGAAAACAGTGTGTTGAAGCAGCAGATGTTGATGGGA
ATGGGATTATGTTGGAAGACACCTCTGTAGAGTTAATAAAACAACCTCAACCCTACTCTGAAGGAAGCCAAGATCA
GGTTAAAGTTTAAAGAAATCCAGAAGAGCAAGGAAAACTAACCCCGCGTGACCGAAGAGGAATTTTGTGAAG
CTTTTTGTGAACCTTGCACCAGGCCAGAAGTGTATTTCTTACTTGTACAGATATCTAAAAACAAGAATATTTGG
ATGCCAATGATCTCATGCTCTTTTTAGAAAGCTGAGCAAGGAGTCACCCATATCACCGAGGATATATGCTTAGACA
TCATAAGGAGATACGAACCTTTCTGAAGAGGGACGTCAAAAAGGGTTTCTTGCAATTGATGGCTTTACCCAGTATT
TATTGTATCAGAATGTGACATTTTGTATCTGAGCAAAAGAAGGTTGCCCAAGATATGACCCAGCCATTATCTC
ACTACTATATCAATGCCTCTCATAACACCTATCTAATAGAAGACCAGTTCAGGGGGCCAGCTGACATCAATGGGT
ACATTAGAGCTTTGAAATGGGCTGTGCAAGCGTTGAACCTCGATGTAAGTGATGGTTCAGATAATGAACCAATCC
TTTGTAATCGAAATAACATGACAACCCATGTTTCTTTCGAAGTGTATAGAGGTAATAAATAAATTTGCCTTTG
TTGCTTCTGAATACCCACTCATTCTTTGCTTGGGAAATCACTGCTCTTGGCCGACGAGAAGGTAATGGCTCAAC
AGATGAAAAAGGCTTTGGCAATAAACTCTATACTGAAGCACCTTGGCCCTCAGAATCCTACCTCCCATCACCAG
AAAAATTAAAAAGAATGATCATTGTGAAAGGAAAGAAGTTGCCTTCTGATCCAGATGTGTTAGAAGGAGAAGTAA
CAGATGAAGATGAAGAAGCTCAAAATGTCTCGAAGGATGTGGTAGATTACAATGGTGAGCAGAAGCAAAATCCGAC
TCTGTAGGGAGCTCTGTGATTTGGTGTCTATTTGTAAATCTGTTCAATACAGGGATTTTGAACATCTATGAAA
GCCAAACTATTGGGAAATGTGTTCAATTTAGTGAACAGAGGCCAGCCGATTGCAAAATGAGTACCCAGAGGATT
TTGTTAATTATAATAAGAAGTCTTATCAAGAATCTATCCAAGTGCCATGAGGATCGATTCCAGTAACTTGAATC
CACAGGACTTTTGGAAATGTGGCTGTGAGATTGTAGCAATGAATTTTCAGACTCCGGGTCCAATGATGGACCTTC
ACACGGGCTGGTTTCTTCAAACGGGGGATGTGGTTAAGTTCTAAGGCCGTCTATAATGCGAGATGAAGTTTCTT
ACTTCAGCGCAATACAAAGGGCATTCTACCTGGGGTGTCTCCTCTAGCTCTTTCATATCAAGATCATCAGTGGTC
AGAATTTCCCAAAGCCCAAGGGAGCTTGTGCCAAAGGGGATGTATAGATCCCTATGTTTGTATAGAGATACACG
GAATTCAGCGGATTGTTCGGAACAAAGAAGTAAACTGTACAGCAAAACAGTGATAATCCTATTTTGTATGAAA
CTTTTGAGTTCCAAGTAAACCTACCTGAGCTGGCCATGATCCGTTTTGTGTTCTGGATGATGACTACATTGGGG
ATGAGTTTATAGGGCAATATACGATACCATTTGAATGTTTGCAGCCTGGATATCGGCATGTTCCCTGCGTTCTT
TTGTGGGTGACATCATGGAGCACGTAACCCCTTTTGTCCACATAGCAATAACTAATCGAAGTGGAGGAGGAAAGG
CACAGAAGCGCAGTCTTTCAGTGAGAATGGGGAAGAAAGTTCCGGGAATATACCATGCTCAGGAATATCGGTCTTA
AAACCATTGATGACATCTTTAAATAGCGGTTTATCCATTACGAGAAGCCATAGATATGAGAGAAAATATGCAGA
ATGCAATCGTGTCTATTAAGGAACATGTGGACTCCCTCCAATTGCCAGTCTGAAGCAGTGCCTGTTAACTCTGT
CATCTCGGCTCATCACCAGTGACAATACTCCTTCAGTCTCACTTGTGATGAAAGACAGCTTTCCTTACCTGGAGC
CTCTGGGTGCAATTCAGATGTGCAGAAAAAGATGCTGACTGCTTATGATCTGATGATTCAAGAGAGCCGGTTTC
TCATAGAAATGGCGGACACAGTCCAGGAAAAGATTGTACAGTGTGAGAAAGCAGGGATGGAGTTCCATGAAGAAC
TTCATAATTTGGGGGCAAAAGAAGGCTTGAAGGGAAGAAAACCAACAAAGCAACTGAGAGCTTTGCTTGAACA
TTACAGTATTGAAGGGCCAAGGAGATCTGTTGAAGAATGCCAAGAATGAAGCTATAGAAAACATGAAGCAGATCC
AGCTGGCATGCCTGTCTGTGGACTGAGTAAAGCCCCAGCAGCAGTGTGAGGCCAAGAGCAAGCGCAGCCTGG
AAGCCATAGAGGAGAAGGAAAGTAGTGAGGAGAATGGGAAGCTGTGACTCTGGGCATTATCGACACGTTCAACCA
TCTTATCAAGGACTCTGGTTTCTCATTCTTGTCTTTCTTTTAAATGTTTTATAAGTTTCAAAAATGGTGCCCT
ATATGGGGTATTGGACATAGATATTTTCACAATGTCAGTATTTTCACTGTAGTTAATTTATCTAAATTAAAGCCTT
TAGTATCAGTGTGTTTTAAATCTGAGACATGTGTCAACACCCCTGTGTGATGCCTGTGGAAGAGTGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGGCAGAGAGAGAGAAAGAGAGAGAGAGAAATCTGTTAAATCTATTCT
GTGTTGCATTATTCATTTAGTGAGTTATCCTTGATCATTTTGGGACAATTGTTTTAATCTGAAATCTTAAAGAG

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FIGURE 564B

CACTTACTGTAACCTGTTGCTGTGTTTAATTTGACTTCTCTGCCTTTGACATTTAATTTAGTGATCTTAGCATAG
CTTATTATTGAAGGAAGCCAAATTTATCAAAGCATAACATGTTTTGGTAGATTAAATATAGATTAGAAAAATTCCT
AAGAATCAGAGTAGAAATAAAAGTGAATGAAAGATTAAACAGATGATGAGAATTTCTAAAAAGATTAGCAAGGTC
ATTTCTTCAGTCAGAAAACCTTAAAAAATATTTATTAATAAAATCAATTTTAGGAAGTTTCTGTAGTCATTT
ACTAAACATATGATTTCACTAGAAAAGCTGATCATAAGTGAATTTATACCTACCTGTGTGGCTACTCTGAAACAC
ACTGAAAGCTCTGTTGCAATTAGGATTTGATGTGACATAATATTGTTGTATAATTTGAGATTGTAGGAAGGTC
TCATTCTCCAAGCTGAGAGTCTAGCACTCATTTCTATAACAGATATGGCAGCTTAGAGGTGTTGGCTTTGTTT
GGATGTAATTTTAGGGGTACTAAAATTTAAATTTAAAGATAATTGTTCAACAATATCATATCATCATTCATGAGC
TGATATAAATTTCTGTGGGTCCGATAATATCTTTGTGATAATTTAAGAGCTAACCAGTTACCCACACATCTATGATA
TAACCCTAACACACACAGAAAGCATAACATGCAAAAAGAAATGACTAATTAGGGTACATTTATAATTGCATCTAGG
TAATTTTTACCCTAATGTCTTCATAAAGTACTTGAGTGTAAATGTTTGTACCTCCAACAGAACTAAATGTTCTAT
GGTTATGAAAGAATATATTTATTTAAAGCATTGCTTTTATTTTGAAAAGCTTCTTAATTAATTTGATTAAACAAAT
ATGCTAATTTGGGGAAACCTAGAGAAGATAATTGTTGAAATTTTGCAATATAAACATCTCCTAT

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FIGURE 565

MPSEKKISSANDCISFMQAGCELKKVRPNSRIYNRFFTLDTLQALRWEPSSKKDLEKAKLDISAIKEIRLGKNT
TFTNGLADQICEDCAFSILHGENYESLDLVANSADVANIWVSGRLVSRSKQPLDFMEGNQNTPRFMWLKTVF
EAADVDGNGIMLEDTSVELIKQLNPTLKEAKIRLKFKEIQKSKEKLTRVTEEEFCEAFCELCRPEVYFLLVQI
SKNKEYLDANDLMLFLEAEQGVTHITEDICLDIIRRYELSEEGRQKGFALDIDGFTQYLLSSECDIFDPEQKKVAQ
DMTQPLSHYYINASHNTYLIEDQFRGPADINGYIRALKMGCRSVELDVSDGSDNEPILCNRRNMTTHVSFRSVIE
VINKFAFVASEYPLILCLGNHCSLPQQKVMQQMKKVFGNKLYTEAPLPSESYLP SPEKLKRMIIVKGKKLPSDP
DVLEGEVTDDEEEAQMRRMSVDYNGEQKQIRLCRELSDLVSICKSVQYRDFELSMKSQNYWEMCSFSETEASRI
ANEYPEDFVNYNKKFLSRIYPSAMRIDSSNLNPQDFWNCGCQIVAMNFQTPGPMMDLHTGWFLQNGGCGYVLRPS
IMRDEVSYFSANTKILPGVSPLALHIKIISGQNFPPKPGACAKGDVIDPYVCIEIHGIPADCSEQRKTIVQQNS
DNP IFDETFEFQVNLPELAMIRFVVLDDDYIGDEFIGQYTIPFECLQPGYRHVPLRSFVGDIMEHVTLEFVHIAIT
NRSGGGKAQKRSLSVRMGKKVREYTMLRNIGLKTIDDIFKIAVHPLREAIMRENMQNAIVSIKELCGLPPIASL
KQCLLTSSRLITSDNTPSVSLVMKDSFPYLEPLGAIPDVQKMLTAYDLMIQESRFLIEMADTVQEKIVQCQKA
GMEFHEELHNLGAKEGLKGRKLNKATESFAWNITVLKGQGDLLKNAKNEAIENMKQIQACLSCGLSKAPSSSAE
AKSKRSLEAIEEKESSEENGKL

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FIGURE 566

GGCGGTCCCTGTTCTCCCGCTCAGGTGCGGCGCTGTGGCAGGAAGCCACCCCTCGGTGCGCCGGTGCGCGGG
GCTGTTGCGCCATCCGCTCCGGCTTTCGTAACCGCACCTGGGACGGCCAGAGACGCTCCAGCGCGAGTTCCCTC
AAATGTTTTCTGCGTTGCCAGGACCGTCCGCCGCTCTGAGTCATGTGCGAGTGGGAAGTCGCACTGACACTGAG
CCGGGCCAGAGGGAGAGAGCCGAGCGCGGCGCGGGGCCAGGGACTCGCAGTGTGTGTAGAGAGCCGGGCTCCT
GCGGATGGGGGCTGCCCCGGGGCTGAGCCCGCTGCCCGCCACCGCCCCGCCCCGCCCCCTGCCACCCCTGCC
GCCCCGTTCCATTAGCCTGTCCGCCCTGCGGGACCATGGAGTGGTAGCCGAGGAGGAAGCATGCTGCCGTGCG
GCTGCGCGCTGCTGGCTGCCCTGCTGGCCGCGCGGGAGCGGCGCTGGCCCCAAGGCGCTGCCCTGCGCAGGAGG
TGGCAAGAGGCGTGCTGACCAGTCTGCCAGGAGACAGCGTGA CTCTGACCTGCCCGGGGTAGAGCCGGAAGACA
ATGCCACTGTTCACTGGGTGCTCAGGAAGCCGGCTGCAGGCTCCCACCCAGCAGATGGGCTGGCATGGGAAGGA
GGCTGCTGCTGAGGTGCGGTGCAGCTCCACGACTCTGGAACTATTATGCTACCGGGCCGCGCCGCGCCAGCTGGGA
CTGTGCACTTGCTGGTGGATGTTCCCCCGAGGAGCCCCAGCTCTCCTGCTTCCGGAAGAGCCCCCTCAGCAATG
TTGTTTGTGAGTGGGGTCTCGGAGCACCCCATCCCTGACGACAAAGGCTGTGCTCTTGTTGAGGAAGTTTCAGA
ACAGTCCGGCCGAAGACTTCCAGGAGCCGTGCCAGTATCCAGGAGTCCAGAAGTTCTCCTGCCAGTTAGCAG
TCCCGGAGGGAGACAGCTCTTTCTACATAGTGTCCATGTGCGTCCGAGTAGTGTGCGGAGCAAGTTTCAGCAAAA
CTCAAACCTTTAGGGTTGTGAATCTTGACGCTGATCCGCTGCCAACATCACAGTCACTGCCGTGGCCAGAA
ACCCCGCTGGCTCAGTGTCACTGGCAAGACCCCACTCTGGAACATCATCTTTCTACAGACTACGGTTTGAGC
TCAGATATCGGGCTGAACGGTCAAAGACATTACAACATGGATGGTCAAGGACCTCCAGCATCACTGTGTATCC
ACGACGCTGGAGCGGCTGAGGCACGTGGTGCAGCTTCTGCGCCAGGAGGAGTTCCGGCAAGGCGAGTGGAGCG
AGTGGAGCCCGAGGCCATGGGCACGCCTGGACAGAATCCAGGAGTCCCTCCAGCTGAGAACGAGGTGTCCACCC
CCATGCAGGCACTTACTACTAATAAAGACGATGATAATATCTCTTCAGAGATTCTGCAAAATGCGACAAGCCTCC
CAGTGAAGATTCTTTCTCAGTACCCTGCCACATTCTGGTTGCTGGAGGGAGCCTGGCCTTCGGAACGCTCC
TCTGCATTGCCATTGTTCTGAGGTTCAAGAAGACGTGGAAGCTGCGGGCTCTGAAGGAAGGCAAGACAAGCATGC
ATCCGCGTACTCTTTGGGGCAGCTGGTCCCGGAGAGGCCCTCGACCCACCCAGTGCTTGTTCTCTCATCTCCC
CACCGGTGTCCCCCAGCAGCTGGGGTCTGACAATACCTCGAGCCACAACCGACCAGATGCCAGGGACCCACGGA
GCCCTTATGACATCAGCAATACAGACTACTTCTTCCCAAGATAGCTGGCTGGGTGGCACCAGCAGCCTGGACCCCT
GTGGATGACAAAACACAAACGGGCTCAGCAAAAGATGCTTCTCACTGCCATGCCAGCTTATCTCAGGGGTGTGCG
GCCCTTGGCTTACGGAAGAGCCTTGGCGAAGGTTCTACGCCAGGGGAAAATCAGCCTGCTCCAGCTGTTACAGT
GGTTGAGGTTTCAAACCTCCCTTTCCAAATGCCAGCTTAAAGGGGTTAGAGTGAACCTGGGCCACTGTGAAGAG
AACCATATCAAGACTCTTTGGACACTCACACGGACACTCAAAGCTGGGCAGGTTGGTGGGGGCTCGGTGTGGA
GAAGCGGCTGGCAGCCACCCCTCAACACCTCTGCACAAGCTGCACCTCAGGCAGGTGGGATGGATTTCAGCC
AAAGCCTCTCCAGCCGCCATGCTCCTGGCCCACTGCATCGTTTCATCTTCCAACCTCAAACCTTAAACCCCAAG
TGCCCTTAGCAAATTCTGTTTTCTAGGCCCTGGGGACGGCTTTACTTAAACGCCAAGGCCTGGGGGAAGAAGCT
CTCTCCTCCCTTTCTTCCCTACAGTTCAAAAACAGCTGAGGGTGAGTGGGTGAATAATACAGTATGTCAGGGCCT
GGTCGTTTTCAACAGAATTATAATTAGTTCCTCATTAGCAGTTTGCCTAAATGTGAATGATGATCCTAGGCATT
TGCTGAATACAGAGGCAACIGCATTTGGCTTTGGGTTGCAGGACCTCAGGTGAGAAGCAGAGGAAGGAGAGAGAG
GGGCACAGGGTCTTACCATCCCTGTAGAGTGGGAGCTGAGTGGGGGATCACAGCCTCTGAAAACCAATGTTCT
CTCTTCTCCACCTCCCAAAAGGAGAGCTAGCAGCAGGGAGGGCTTCTGCCATTCTGAGATCAAAACGGTTTTA
CTGCAGCTTTGTTTGTGTCAGCTGAACCTGGGTAAGTGGGAAGATAATATTAAGGAAGACAATGTGAAAAGAA
AAATGAGCCTGGCAAGAATGCGTTTAACTTGGTTTTTAAAAAAGTGTGACTGTTTTCTCTTGAGAGGGTGGA
TATCCAATATTCGCTGTGTCAGCATAGAAGTAACTTACTTAGGTGTGGGGGAAGCACCATAACTTTGTTTAGCCC
AAAACCAAGTCAAGTGAAAAAGGAGGAAGAGAAAAAATATTTCTGCCAGGCATGGAGGCCACGCACTTCGGG
AGGTGAGGCAGGAGGATCACTTGAGTCCAGAAGTTTGAGATCAGCCTGGGCAATGTGATAAAACCCCATCTCTA
CAAAAAGCATAAAAATTAGCCAAGTGTGGTAGAGTGTGCCTGAAGTCCCAGATACTTGGGGGGCTGAGGTGGGAG
GATCTCTTGAGCCTGGGAGGTCAAGGCTGCAGTGAGCCGAGATTGCACCACTGCACTCCAGCCTGGGGTGACAGA
GCAAGTGAGACCTGTCTC

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FIGURE 567

MLAVGCALLAALLAAPGAALAPRRCPAQEVARGVLTSLPGDSVTLTCPGVEPEDNATVHWVLRKPAAGSHPSRWA
GMGRRLLLRSVQLHDSGNYSYRAGRPAAGTVHLLVDVPPEEPQLSCFRKSPLSNVVCWGPSTPSLTITKAVLLV
RKFQNSPAEDFQEPQYSQESQKFSQQLAVPEGDSSFYIVSMCVASSVGSKFSKTQTFQCGILQPDPPANITVT
AVARNPRWLSVTWQDPHSWNSSFYRLRFELRYRAERSKFTTTWMVKDLQHHCVIHDAWSGLRHVVQLRAQEFGQ
GEWSEWSPEAMGTPWTESRPPAENEVSTPMQALTTNKDDDNILFRDSANATSLPVQDSSSVPLPTFLVAGGSLA
FGTLLCIAIVLRFKKTWKLRLALKEGKTSMHPPYSLGQLVPERPRPTPVLVPLISPPVSPSSLGSDNTSSHNRPDA
RDPRSPYDISNTDYFFPR

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FIGURE 568

CAAGAGAGAGAGAGAGGTGCAAGCCCCAAAGCGAGCGACATGTCCCTTTGGGGAGCAGTCCCTCTGCACCCCA
GTGAGGAGGACGCAGGGGTGAGAGGTGGCTACAGGGCAGGCAGAGGAGGCACCTGTAGGGGGTGGTGGGCTGGTG
GCCCAGGAGAAGTCAGGAAGGGAGCCCAGCTGGTGACAAGAGAGCCCAGAGGTGCCCTGGGGCTGAGTGTGAGAGC
CCGGAAGATTTTCAGCCATGCTTCACAGCTCCGACAGCAGTGAAGTCCAGCTTCAGCCGCTCTCTCCCCCTGGCAA
ACAGGACTCATCTGATGATGTGAGAAGAGTTTCAGAGGAGGGAGAAAAATCGTATTGCCGCCCAAGAGCCGACA
GAGGCAGACACAGAAGGCCGACACCCCTGCACCTGGAGAGCGAAGACCTGGAGAAACAGAACGCGGCTCTACGCAA
GGAGATCAAGCAGCTCACAGAGGAAGTGAAGTACTTCACGTGGTGTGCTGAACAGCCACGAGCCCTGTGCTCGGT
GCTGGCCGCCAGCACGCCCTCGCCCCCGAGGTGGTGTACAGCGCCACGCATTCCACCAACCTCATGTGAGCTC
CCCGCGCTTCCAGCCCTGAGCTTCCGATGCGGGGAGAGCAGAGCCTCGGGAGGGGCACACAGACTGTGGCAGAGC
TGCGCCCATCCCGCAGAGGCCCTGTCCACCTGGAGACCCGGAGACAGAGGCCTGGACAAGGAGTGAACACGGGA
ACTGTACGACTGGAAGGGCGTGAGGCCTCCAGCAGTGCCGACGCTTCGAGGGGCGTGTGCTGGACCCACC
ACTGTGGGTGTCAGGCCCAATGCAGAAGAGTATTAAGAAAGATGCTCAAGTCCCATGGCACAGAGCAAGGCGGC
AGGGAACGGTTATTTTTCTAAATAAATGCTTTAAAGA

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FIGURE 569

MPHSSDSSDSSFSRPPPGKQDSSDDVRRVQRREKNRIAAQSRQRQTQKADTLHLESEDLEKQNAALRKEIKQL
TEELKYFTSVLNSHEPLCSVLAASTPSPPEVVYSAHAFHQPHVSSPRFQP

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FIGURE 570

CGGAAGGTGTGAGCCGCAAACCCAGCGGAGGGCGGGAAGAAGGAGGAGGCCTCTAGGGTGXTCGGGGGACTGGGG
GCCCCGCCGGCAGAGGTCCCTCGGCCTCCTGACTGACTGACTGCGGCCGCTCCGGCCAGGACGCTGGGAGCTGC
CTGCGGGAAGGTGCGGGGAGCGGAGCCATGGCCTCCGGTGCGTATAACCCGTATATAGAGATAATTGAACAACCC
AGGCAGAGGGGAATGCGTTTTAGATACAAATGTGAAGGGCGATCAGCAGGCAGCATTCCAGGGGAGCACAGCACA
GACAACAACCGAACATACCCCTTCTATCCAGATTATGAACTATTATGGAAAAGGAAAAGTGAGAATTACATTAGTA
ACAAAGAATGACCCATATAAACCTCATCCTCATGATTTAGTTGGAAAAGACTGCAGAGACGGCTACTATGAAGCA
GAATTTGGACAAGAACGCAGACCTTTGTTTTCCAAAATTTGGGTATTGATGTGTGAAGAAAAAGAAGTAAAA
GAAGCTATTATTACAAGAATAAAGGCAGGAATCAATCCATTCAATGTCCCTGAAAAACAGCTGAATGATATTGAA
GATTGTGACCTCAATGTGGTGAGACTGTGTTTTCAAGTTTTCTCCCTGATGAACATGGTAATTTGACGACTGCT
CTTCCTCTGTTGTCTCGAACCCAAATTTATGACAACCGTCTCCAAATACTGCAGAATTAAGGATTTGTCTGTGA
AACAAGAATTGTGGAAGTGTGAGAGGAGAGATGAAATATTCTACTTTGTGACAAAGTTCAGAAAAGATGACATA
GAAGTTCGTTTTGTGTTGAACGATTGGGAAGCAAAAGGCATCTTTTACAAGCTGATGTACACCGTCAAGTAGCC
ATTGTTTTCAAACCTCCACCATATTGCAAAGCTATCACAGAACCCGTAACAGTAAAAATGCAGTTGCGGAGACCT
TCTGACCAGGAAGTTAGTGAATCTATGGATTTTAGATATCTGCCAGATGAAAAGATACTTACGGCAATAAAGCA
AAGAAACAAAAGACAACCTCTGCTTTTCCAGAACTGTGCCAGGATCACGTAGAAAACAGGGTTTCGCCATGTTGAC
CAGGATGGTCTTGAACCTGACATCAGGTGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGTTAAT
TTTCCTGAGAGACCAAGACCTGGTCTCCTCGGTTCAATTGGAGAAGGAAGATACTTCAAAAAAGAACCAACTTG
TTTTCTCATGATGCAGTTGTGAGAGAAATGCCTACAGGGGTTTCAAGTCAAGCAGAATCCTACTATCCCTCACCT
GGGCCCATCTCAAGTGGATTGTACATCATGCCTCAATGGCACCTCTGCCTTCTTCAAGCTGGTCAATCAGTGGCC
CACCCACCCACGCTCAGGCAATACAAACCCACTGAGTAGTTTTTCAACAAGGACACTTCCTTCTAATTCGCAA
GGTATCCCACCATTCTGAGAATACCTGTTGGGAATGATTTAAATGCTTCTAATGCTTGCATTTACAACAATGCC
GATGACATAGTCGGAATGGAAGCGTCATCCATGCCATCAGCAGATTTATATGGTATTTCTGATCCCAACATGCTG
TCTAATTGTTCTGTGAATATGATGACAACCAGCAGTGACAGCATGGGAGAGACTGATAATCCAAGACTTCTGAGC
ATGAATCTTGAACCCCTCATGTAATTCAGTGTAGACCCAGAGACTTGAGACAGCTCCATCAGATGTCCTCT
TCCAGTATGTCAGCAGGCGCCAATTCCAATACTACTGTTTTTGTTCACAATCAGATGCATTTGAGGGATCTGAC
TTCAGTTGTGCAGATAACAGCATGATAAATGAGTCGGGACCATCAAACAGTACTAATCCAAACAGTCATGGTTTT
GTTCAAGATAGTCAGTATTCAGGTATTGGCAGTATGCAAAATGAGCAATTGAGTGACTCCTTTCCATATGAATTT
TTTCAAGTATAAAGTTGCAAGATTTAAATCCTTTTAAATCTTGATACCACCTATATAGATGCAGCATTTTGTATTT
GTCTAACTGGGGATATAATACTATATTTATACTGTATATATAATACTGACTGAGAATATAATACTGTATTTGAGA
ATATAAAAACTTTTTTCAGGGAAGAAGCATACAACCTTTGGACATAGCGAATACAAAATTGGAAGCTGTCATAAA
AAGACAACCTCAGAGGCCAGGCGCAGGXGCTCACACCTGTAATCCTAGCACTTTGGGAGGCCAAGGCGGGTGGATC
ACTTGAGACCAAG

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FIGURE 571

MASGAYNPYIEIIEQPRQRMFRYKCEGRSAGSIPGEHSTDNNRTYPSIQIMNYYGKGKVRITLVTKNDPYKPH
PHDLVGKDCRDGYEAEFGQERRPLFFQNLGIRCVKKKEVKEAII TRIKAGINPFNVPEKQLNDIEDCDLNVVRL
CFQVFLPDEHGNLTALPPVVSNIYDNRAPNTAELRICRVNKNCGSVRGGDEIFLLCDKVQKDDIEVRFVLNDW
EAKGIFSQADVHRQVAIVFKTPPYCKAITEPVTVKMQLRRPSDQEVSESMDFRYLPDEKDTYGNKAKKQKTLLF
QKLCQDHVETGFRHVDQDGLELLTSGDPPTLASQSAGITVNFPERPRPGLLSIGEGRYFKKEPNLFSHDAVRE
MPTGVSSQAESYYPSPGPISGLSHHAPLPSSSWSSVAHPTPRSGNTNPLSSFSTRILPSNSQGIPFLRIP
VGNDLNASNACIYNNADDIVGMEASSMP SADLYGISDPNMLSNCSVNMMTTSSDSMGETDNPRLLSMNLENPSCN
SVLDPRDLRQLHQMSSSSMSAGANSNTTVFVSQSDAFEGSDFSCADNSMINESGPSNSTNPNSHGFVQDSQYSGI
GSMQNEQLSDSFPEFFQV

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FIGURE 572

GGCGCGGGGACGCGGGTTTCTGCCTCAGGCCCTGCCCTGCTCTACTCTGCGCTCTCTGCCCCGCGCCGCCGCCGCC
TCAGCCTCGGCCCTGCGCTGCGCGCCCCGGCCCGTGTGCCATGGCCCTGCCGCCCGCGAAGCCCCGCCGAGGCATCA
GAGCCGCTGCGACGGTGACGCCAGCCCGCCGTCCCCCGCGCGATGGAGCCTGGGACGGAAGCGCAGAGCCGACGG
CAGGCGCTGGAGGCCCGAAGACGCCGAGGAGGCAGAGCACCGCGCGCCGAGCGCAGACCCGAGAGCTTTACCAC
TCCTGAAGGCCCTAAACCCCGTTCCAGATGCTCTGACTGGGCAAGTGCAGTTGAAGAAGATGAAATGAGGACCAG
AGTTAACAAAGAAATGGCAAGATATAAAAGGAACTCCTCATCAATGACTTTGGAAGAGAGAGAAAATCATCATC
AGGAAGTTCTGATTCAAAGGAGTCTATGTCTACTGTGCCGGCTGACTTTGAGACAGATGAAAGTGTCTAATGAG
GAGACAGAAGCAGATCAACTATGGGAAGAACAATTGCCTACGATCGTTATATTAAAGAAGTCCCAAGACACCT
TCGACAACCTGGCATTTCATCCCAAGACCCCTAATAAAATTAAGAAGTATAGTCGACGTTTCATGGGACCAGCAAAT
CAAACCTCTGGAAGGTGGCTCTGCATTTTGGGATCCTCCAGCGGAAGAAGGATGTGATTGCAAGAAATACACCC
TGTAGACCTTGAATCTGCAGAAAGCAGCTCCGAGCCCCAGACCAGCTCTCAGGATGACTTTGATGTGTACTCTGG
CACACCCACCAAGGTGAGACACATGGACAGTCAAGTGGAGGATGAGTTTGATTGGGAAGCTTGTTTAACTGAACC
CTTGAGAGACTTCTCAGCCATGAGCTAACTGCCCCCTGGCGGCCAGGAAGAGAAACAGCTCCTCCCCGACTAGGT
GGAAGGCTGGCCAGGCACCAAGCATGTGTGTGCACCTGTACCTGGTGGTTTCTCTGTTAGCAGTCCATTAGCTCA
TGCTGAATTATTTTTGCCTTACTTTCTTAAGAAACATTAATTTTATGTATAGTGAGTATATTTGCATGTTTTAA
ATTGTAAATGGAGCTAAGTCCAAGAAAGTACTTGAAGCTCTCTCCAGCGAGCTTAATTGCGTAATCCCTGTTGT
CCTCCAGGGTAAGCTGACACGTCTACATAACTGGTTTTCCACAGGCATCTTCAGTTATTGCTTGTTCAGGTGGACT
GTTTTGGATTTAACCATGTAATCCATGGGACCAATTGAGAGTCAGCTACTTTTATAGGCATCAAAGTATTCTCAG
ACACCTTTAATATCTTTATGGAACTTAATTTTTTGGCCTTTTATCAATATGTCATAACAGCATTCTGAAGTCAGA
CATTGTAAATTGAGCTATTAACTAATGAGTTTTATGTAAGTTATATGGTCTTAATTTGGTACTTGTAAATAGC
ACTAGTTAGACTCTTTAGAATACTCCAAGAGTTAGGGCAGCAGAGTGGAGCGATTTAGAAAGAACATTTTAAAC
AATCAGTTAATTTACCATGTAAAATTGCTGTAATGATAATGTGTACAGATTTTCTGTTCAAATATTCAATTGTA
AACTTCTGTTAAGACTGTTACGTTTCTATTGCTTTTGTATGGGATATTGCAAAAATAAAAAGGAAAGAACCCTC
AAAAAAAAAAAAAAAAAAAA

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FIGURE 573

MACRPRSPPRHQSRCGDASPPSPARWSLGRKRRADGRRWRPEDAEAEHGAERRPESFTTPEGPKPRSRCSDW
ASAVEEDEMTRVKNEMARYKRKLLINDFGREKSSSGSSDSKESMSTVPADFETDESVMRRQKQINYGKNTIA
YDRYIKEVPRHLRQPGIHPKTPNKFKKYSRRSWDQQIKLWKVALHFWDFPAEEGCDLQEIHFPVDLESAESSSEPQ
TSSQDDFDVYSGTPTKVRHMDSQVEDEFDLEACLTEPLRDFSAMS

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FIGURE 574

AAGCGGCAGGAGCAGCGTTGGCACCGGCGAACCATGGCTGGGATTTTCTATTTGCGCCTATTTTCGTGTCTCTTC
GGGATTTGCGACGCTGTACAGGTTCCAGGGTATACCCGCGAATGAAGTTACCTTATTGGATTCCAGATCTGTT
CAGGGAGAAGTTGGGTGGATAGCAAGCCCTCTGGAAGGAGGGTGGGAGGAAGTGAGTATCATGGATGAAAAAAT
ACACCAATCCGAACCTACCAAGTGTGCAATGTGATGGAACCCAGCCAGAATAACTGGCTACGAAGTATTGGATC
ACCCGAGAAGGGGCTCAGAGGGTGTATATTGAGATTAAATTCACCTTGAGGGACTGCAATAGTCTTCCGGGCGTC
ATGGGGACTTGCAAGGAGACGTTTAACTGTACTACTATGAATCAGACAACGACAAAGAGCGTTTTCATCAGAGAG
AACCAGTTTGTCAAATTGACACCATGCTGCTGATGAGAGCTTCACCAAGTGGACATTGGTGACAGAATCATG
AAGCTGAACACCGAGATCCGGGATGTAGGGCCATTAAAGCAAAAAGGGGTTTACCTGGCTTTTCAGGATGTGGGG
GCCTGCATCGCCCTGGTATCAGTCCGTGTGTTCTATAAAAAGTGTCCACTCACAGTCCGCAATCTGGCCAGTTT
CCTGACACCATCACAGGGGCTGATACGTCTTCCCTGGTGAAGTTCGAGGCTCCTGTGTCAACAACCTCAGAAGAG
AAAGATGTGCCAAAATGTACTGTGGGCGAGATGGTGAATGGCTGGTACCCATTGGCAACTGCCTATGCAACGCT
GGGCATGAGGAGCGGAGCGGAGAATGCCAAGCTTGCAAAATTGGATATTACAAGGCTCTCTCCACGGATGCCACC
TGTGCCAAGTGCCACCCACAGCTACTCTGTCTGGGAAGGAGCCACCTCGTGCACCTGTGACCGAGGCTTTTTC
AGAGCTGACAACGATGCTGCCTCTATGCCCTGCACCCGTCCACCATCTGCTCCCCTGAAGTTGATTTCAAATGTC
AACGAGACATCTGTGAAGTTGGAATGGAGTAGCCCTCAGAATACAGGTGGCCGCCAGGACATTTCCCTATAATGTG
GTATGCAAGAAATGTGGAGCTGGTGACCCAGCAAGTGCCGACCCTGTGGAAGTGGGGTCCACTACACCCACAG
CAGAATGGCTTGAAGACCACCAAAGTCTCCATCACTGACCTCCTAGCTCATACCAATTACACCTTTGAAATCTGG
GCTGTGAATGGAGTGTCAAATATAACCCTAACCCAGACCAATCAGTTTCTGTCACTGTGACCACCAACCAAGCA
GCACCATCATCCATTGCTTTGGTCCAGGCTAAAGAAGTACAAGATACAGTGTGGCACTGGCTTGGCTGGAACCA
GATCGGCCCAATGGGGTAATCCTGGAATATGAAGTCAAGTATTATGAGAAGGATCAGAATGAGCGAAGCTATCGT
ATAGTTCCGACAGCTGCCAGGAACACAGATATCAAAGGCTGAACCCCTCTCACTTCCTATGTTTTCCACGTGCGA
GCCAGGACAGCAGCTGGCTATGGAGACTTCAGTGAGCCCTTGGAGGTTACAACCAACACAGTGCCTTCCCGGATC
ATTGGAGATGGGGCTAACTCCACAGTCCCTCTGGTCTCTGTCTCGGGCAGTGTGGTGTCTGGTGAATTTCTCATT
GCAGCTTTTGTTCATCAGCCGAGACGGAGTAAATACAGTAAAGCCAAACAAGAAGCGGATGAAGAGAAACATTTG
AATCAAGGTGTAAGAACATATGTGGACCCCTTTACGTACGAAGATCCCAACCAAGCAGTGCCGAGAGTTTGCCAAA
GAAATTGACGCATCCTGCATTAAAGATTGAAAAAGTTATAGGAGTTGGTGAATTTGGTGAGGTATGCAGTGGGCGT
CTCAAAGTGCCCTGGCAAGAGAGAGATCTGTGTGGCTATCAAGACTCTGAAAGCTGGTTATACAGACAAACAGAGG
AGAGACTTCCTGAGTGAGGCCAGCATCATGGGACAGTTTGACCATCCGAACATCATTCACTTGAAGGCGTGGTC
ACTAAATGTAAACAGTAATGATCATAACAGAGTACATGGAGAATGGCTCCTTGGATGCATTCCCTCAGGAAAAAT
GATGGCAGATTTACAGTCATTGAGCTGGTGGGCATGCTTCGTGGCATTGGGTCTGGGATGAAGTATTTATCTGAT
ATGAGCTATGTGCATCGTGATCTGGCCGCACGGAACATCCTGGTGAACAGCAACTTGGTCTGCAAAGTGTCTGAT
TTTGGCATGTCCCGAGTGTCTGAGGATGATCCGGAAGCAGCTTACACCACCAGGGGTGGCAAGATTCCCTATCCGG
TGGACTGCGCCAGAAGCAATTGCCTATCGTAAATTCACATCAGCAAGTGATGTATGGAGCTATGGAATCGTTATG
TGGGAAGTGATGTCTGACGGGAGAGGCCCTATTGGGATATGTCCAATCAAGATGTGATTAAAGCCATTGAGGAA
GGCTATCGGTTACCCCTCCAATGGACTGCCCCATTGCGCTCCACCAGCTGATGCTAGACTGCTGGCAGAAGGAG
AGGAGCGACAGGCCATAATTTGGGCAGATTGTCAACATGTTGGACAACTCATCCGCAACCCCAACAGCTTGAAG
AGGACAGGGACGGAGAGCTCCAGACCTAACACTGCCTTGTGGATCCAAGCTCCCTGAATTCTCTGCTGTGGTA
TCAGTGGGCGATTGGCTCCAGGCCATTAAATGGACCGGTATAAGGATAACTTCACAGCTGCTGGTTATACCACA
CTAGAGGCTGTGGTGCACGTGAACCAGGAGGACCTGGCAAGAATTGGTATCACAGCCATCACGCACAGAATAAG
ATTTTGAGCAGTGTCCAGGCAATGCCAACCCTAAATGCAGCAGATGCACGGCAGAATGGTTCCCGTCTGAGCCAGT
ACTGAATAAACTCAAACTCTTGAAATTAGTTTACCTCATCCATGCACTTTAATTGAAGAACTGCACCTTTTTTTA
CTTCGTCTTCGCCCTCTGAAATTAAAGAAATG

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FIGURE 575

MAGIFYFALFSCFLGICDAVTGSRVYPANEVILLDSRSVQGELGWIASPLEGGWEEVSIMDEKNTPIRTYQVCNV
MEPSQNNWLRTDWITREGAQRVYIEIKFTLRDCNSLPGVMGTCKETFNLYYESDNDKERFIRENQFVKIDTIAA
DESFTQVDIGDRIMKLNTEIRDVGPLSKKGFYLAQDVGACIALVSVRVFYKKCPLTVRNLAQFPDTITGADTSS
LVEVRGSCVNNSEKDVPKMYCGADGEWLVPIGNCLCNAGHEERSGECQACKIGYYKALSTDATCAKCPPHSYSV
WEGATSCTCDRGFFRADNDAASMPCTRPPSAPLNLSNVNETSVNLEWSSPQNTGGRQDISYNNVCKKCGAGDPS
KCRPCGSGVHYTPQQNGLKTTKVSITDLLAHTNYTFEIWAVNGVSKYNPNPDQSVSVTVTTNQAAPSSIALVQAK
EVTRYVALAWLEPDRPNGVILEYEVKYYEKDQNERSYRIVRTAARNTDIKGLNPLTSYVFHVRARTAAGYGDFS
EPLEVTTNTVPSRIIGDGANSTVLLVSVSGSVLVVILIAAFVISRRRSKYSKAKQEADEEKHLNQGVRTYVDPF
TYEDPNQAVREFAKEIDASCIKIEKVIGVGEFGEVCSGRLKVPKREICVAIKTLKAGYTDKQRRDFLSEASIMG
QFDHPNIIHLEGVVTCKPKVMIITEYMENGSLDAFLRKNDRFTVIQLVGMLRGIGSGMKYLSDMYSYVHRDLAAR
NILVNSNLVCKVSDFGMSRVLEDDPEAAAYTRGGKIPIRWTAPEAIAYRKFTSASDVWSYGIVMWEVMSYGERPY
WDMSNQDVIKAIIEGYRLPPPMDCPIALHQLMLDCWQKERSDRPKFGQIVNMLDKLIRNPNSLKRTGTSSRPNT
ALLDPSSPEFSAVVSVGDWLQAIKMDRYKDNFTAAGYTTL EAVVHVNQEDLARIGITAI THQNKILSSVQAMRTQ
MQQMHGRMVPV

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FIGURE 576A

GATCAATACTGAGGCCGCTGACCCCCCTTGAGCCGAGACCCCCCCCAGCCAGCCCCACCCCACCCCCGCA
CACGCCCCACCCCCCAGACCCAGCCTCATACCGCACCAGCTGAGGCACCCAAGAGGATTACCCCCCTGGGGCC
CTCTCCCGCCCCCAAAAAAGAGAAGATCCCCTCTCTGGCCCATCCCTTCCCTTCTTCCCTCCCCCTCCCCC
GAACTTTCCCTCTCGCATGCTTTTCCCTGCACCACGGATCGCCTCTCGGATGCCGCTTGCTGGAAGCTGCGTT
AGGAGCGAGCGGGCGCGGTGGCGGCGGTGGCGGCGGGCGGCAGCTCGGGAGTGCTATGACCGGCAAACTCGCC
GAGAAGCTGCCGCTGACCATGAGCAGTTTGCTAAACCACTGCCTGACAATCTGTACCCCGAGGAGATCCCCAGC
GCGCTCAACCTCTTCTCGGCAGCAGCGACTCGGTAGTCCATTACAATCAGATGGCTACAGAGAATGTAATGGAC
ATCGGTCTGACCAACGAGAAGCCCAACCCGGAACCTCTTACTCCGGCTCCTTCCAGCCAGCCCCCGGAACAAG
ACCGTGACCTACTTGGGAAAGTTTCGCTTCGACTCCCCCTTCCAACCTGGTGCCAGGACAACATCATTAGCCTCATG
AGCGCCGCGCATCTTGGGGGTGCCCCGGCTTCAGGGGCGCTAAGCACGCAGACGTCCACGGCCAGCATGGTGCAG
CCACCGCAGGGTGACGTGGAGGCCATGTATCCCGCTACCCCCCTACTCCAACCTGCGGCGACCTCTACTCAGAG
CCCCGTCTTTTCCACGACCCCCAGGGCAATCCCGGGCTCGCCTATTCCCCCAGGATTACCAATCGGCCAAGCCG
GCGTTGGACAGCAATCTCTTCCCATGATTCTGACTACAACCTCTACCACCACCCCAACGACATGGGCTCCATT
CCGGAGCACAAGCCCTTCCAGGGCATGGACCCCATCCGGGTCAACCCGCCCTTACTACCCCTCTGGAGACCATC
AAGGCATTCAAAGACAAGCAGATCCACCCGGGCTTTGGCAGCCTGCCCGAGCCGCGCTCACCTCAAGCCCATC
CGGCCCCGCAAGTACCCCAACCGGCTTAGCAAGACACCGCTCCACGAACGCCCCACGCGTGCCCGGCGGAGGGC
TGCGACCGCGTTTTCAGCGTTTCGGACGAGCTGACCCGGCAGCTGCGCATCCACACGGGCCACAAGCCCTTCCAG
TGCCGATCTGCATGCGGAGCTTCAGCCGAGCGACCACTCACCCTCAGATCCGCACTCATAAGGGCGAGAAG
CCCTTTGCTGCGAGTTCTGCGGGCGCAAGTTTGGCGCAGCGACGAGCGCAAGCGCCACGCCAAGATCCACCTC
AAGCAAAAGGAGAAGAAGGCGGAGAAGGGCGGTGCACCTCTGCATCCTCGCGCCCCCGGTGCTGCTGGCCCC
GTGGTCACCACCTGCGCTGAGGATCGGGCCCCCAGATCCCCACTTTTCCCTCCAGTGCTTCCCGGCTGCTAGC
CTGAAAGCAGCGGGAAGCCAGCCACGGAGCGTAGGGGCGCGCCCTGGCTCTCCATGGACGTGCGGCCCTT
GCTTCCCTTCGATGCCCCGCTTCCCAACCTTTCAGCGCGCCAGCGGTGAGGGGCCAGGGCTGGAGGCGCCTT
CCCCTCGCGGTCCCCACTTAGCCAAGGCGTGGGGGCGGAAAGGTGGCGTCTAGCCCGCTTTGTTAGTTCCGAT
CGCCTTGATCCAGGGGCGCGCGGGCCGCGCAAGGACCTGCAAGGGACTGAAGGCGGAGCCCATCCAACCTCGC
CCGACCCAAACACCTCATTGTTTCCCCACGTCTCCCTCTATACCCCTCGAAGACTCGAGAGGGGGAGGGGGTA
AGGAGCGCACCAAGCGCAGAGCTTGCTGCCCGCCGACGCACGCGCGCCTGCGTGCGGGGATGCGCGCGAGTGT
GTGCGTGTGCGGTGTGTGTGTATGTAA
ACTCTTGAGCTGAACCTGGGCTGTGTTTACCCCAAACCTCTTCCCCACCTCGGGTCCCCAAGCCGCTGGGAGATGTC
CCATGCTGGGGGTCCGACGTGGCTGGAGGAGGTGGTCTTCCATCCGCTCTGAAATCATGTTTCTTAGAGAAATG
CCTCGGATGCCGCGGACGCGGTGCTGCTGCCCGCGCTTCGGGTTTGGCCCCCTCAGAACCCCTCCTTTTCTGAGCG
CTTCCCTCTTAGGCCTCAGGGCAGTTTGATCTGTGGGGAGAAAGAGCAGCCATCGCTGAGCCTGCCTTTTAAAT
ATATGTGATTTCTTAGCCCCACTCTAAGAAATCTATGTTCTGAGTTTGGCCCCCTGCCCTCCCACTCCTTCCC
CTTTTCCCTCTAAACCTTCTCCCATCTCTTTCAAATCTTTTCCAGAAAGGCAGGCTTCAACCAGCCACTCCA
GCTTTGTGCTTCTCTCAATTACATAGCAATTTCTCCTTCCCAACCATCATGGGGAAGCTGGCTGCTTTTGCCC
TTTGTATACCAACACAACAGATAGAATTTAAATATAAGTATATGGTGTGCGTGTGTATGTATGTATGTATATA
TGCATGCATGTGTATAAAGATGCACATGCGTACATATACATAACATAACACAATATGTATTTCTAGCAAAATAA
AATCTCTAAGGTACTTGGTTATCCAGTGCAGTGCACCGGAATAAAGAGAATTTGTAGGCGTATACAGCTTTAAAT
GATTTATTTTTTATGAAAATGTTAACTGATGAGATTATATCTACATACGTGTGTATGTGTGTGGATATAGATGC
ACACATATCTGTACATATACATGTGAGTGTACATATATACATATACACATCTATGTATGGATATGTGTGTATA
CACATATACACATCTCTGTCCAAATTTCTCAAAGATATGGGGATTTTTTCATGAATCCATGTGGATGAATGAG
GTGTCTCCTTTCCATACCCAGTCTCACCTTCTCCCCACCCTACCTCACCTCTTCTCAGGCACCCCTCTTCCCCAG
CTGTCTGCCAGCCCTTCTCGTACAGGGTGGCTCCTTTGAAGTGGAGTAATAGGGAAGGTTGCTCTCTGCCACAG
CTTGACGATGGTCTTGACTGAATGTACTGTTCTGTAGCGTTACTTCTCCTGTGGTCAGTAAGTTGCCACAG
AGAAGGAACAAAGTCTGGAGTTTACAGAAATGCTGTTTTTAAAGTCACTTTATGCGTTTTTCACTTTTTCTTT
TTTAAAGAAAAGAGTACCATTTTTGTTTTGTTTTGTTTTGATTTTTGGTGGTGGATAAATAATACTAAAAGGAC
TCTAGTGGAAAGGGGGATATCGAAGAGCAGGGGGTGTGAATTTCCAGGTACTTGGACTTTTTGTAGAAGTAGA
GAGAAGAAGATGAAGTTTGCCAGGAGGGGCCATATTTTTTCAGCTGAAGGTAATACTTTCTTGCAGAGACAG

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FIGURE 576B

TATTTTGCTGAATACTTTTTATAATGTGATGATTATTAAGCAAAAATTTGGTCACTTCCAAGCTAGAAGG
AGGAATCAGATACCCTTTAATATTTTTCTCGCTCCTTCTGGTATATGCATGTCACCTGCATGATAATTGAGTTT
TCCTTTGTTTTAATAAACTGTTCTCAGACATTAAGCTAACTAAGAGAAAAATAACTTTGTTGCCAAAAGGTTG
TGCTATCCAGATTTTTTATATGTCTGCATGTTTAAAAAAGCAACAAAAGAAAATGCACTCTAAGTTATG
TGAAGTGAGAGAAAAAATCAGGTTTTAAACAGGAAACCTATGGGGAATGATATTTTTGAAAGACTTTTGTAT
AAAGTTGAGTACTTAGAAAAAGACAAACAGATGTAATATATTTTGTGGATGTTTTATTCTTGATTTATAG
TACCTTATACTAAGGTTAAAAAATATGCTTGATATTGTGAAAGGTGAAATCTTCACCAACATTTCAATTTGCT
CCTTTGTCATATTGTAATGCCAATATAATATAGTTAATGAAAACAGCATTTTAAAAACCGAAATATTGAAATGG
TGTAATGTTGTACCATTGCACTGTGAGCAAATGCTAATACAGTAAATATATTGTGTTTGCTGACAATCAAAAA
AAAAAAAAAAAAA

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FIGURE 577

MTGKLAEKLPVTMSSLLNQLPDONLYPEEIPSA LNLFSGSSDSVVHYNQMATENVMDIGLTNEKPNPELSYSGSFQ
PAPGNKTVTYLGKFAFDSPSNWCQDNIISLMSAGILGVPPASGALSTQTSTASMVQPPQGDVEAMYPALPPYSNC
GDLYSEPVSFHD PQGNPGLAYSPQDYQSAKPALDSNLFPMIPDYNLYHHPNDMGSIPEHKPFQGMDFIRVNPPPT
TPLETIKAFKDKQIHPGFGSLPQPPLTLKPIRPRKYPNRPSKTPLHERPHACPAEGCDRRFSRSDLTRHLRIHT
GHKPFQCRICMRFSRSDHLTTHIRTHTGEKPFACEFCGRKFARSDEKRRHAKIHLKQKEKKAEGGAPSASSAP
PVSLAPVVTTC A

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FIGURE 578A

ACCTAAAACCTTGCAAGTTCAGGAAGAAACCATCTGCATCCATATTGAAAACCTGACACAATGTATGCAGCAGGC
TCAGTGTGAGTGAAGTGGAGGCTTCTCTACAACATGACCCAAAGGAGCATTGCAGGTCCTATTTGCAACCTGAAG
TTTGTGACTCTCCTGGTTGCCTTAAGTTCAGAACTCCCATTCTGGGAGCTGGAGTACAGCTTCAAGACAATGGG
TATAATGGATTGCTCATTGCAATTAATCCTCAGGTACCTGAGAATCAGAACCTCATCTCAAACATTAAGGAAATG
ATAACTGAAGCTTCATTTTACCTATTTAATGCTACCAAGAGAAGAGTATTTTTCAGAAATATAAGATTTTAATA
CCTGCCACATGGAAGCTAATAATAACAGCAAAATAAAACAAGAATCATATGAAAAGGCAAATGTCATAGTGACT
GACTGGTATGGGGCACATGGAGATGATCCATACACCCTACAATACAGAGGGTGTGGAAAAGAGGGAAAATACATT
CATTTACACCTAATTTCTACTGAATGATAACTTAACAGCTGGCTACGGATCACGAGGCCGAGTGTGTTGCCAT
GAATGGGGCCACCTCCGTTGGGGTGTGTTGATGAGTATAACAATGACAAACCTTTCTACATAAATGGGCAAAAT
CAAATTAAGTGACAAGGTGTTTCTGACATCACAGGCATTTTGTGTGTGAAAAGGTCCTTGCCCCAAGAA
AACTGTATTATTAGTAAGCTTTTAAAGAAGGATGCACCTTTATCTACAATAGCACCCAAAATGCAACTGCATCA
ATAATGTTTATGCAAGTTTATCTTCTGTGGTTGAATTTTGAATGCAAGTACCCACAACCAAGAAGCACCACAAAC
CTACAGAACCATGATGTCAGCCTCAGAAGTGCATGGGATGTAATCACAGACTCTGCTGACTTCCACCACAGCTTT
CCCATGAATGGGACTGAGCTTCCACCTCCTCCACATTCTCGTTGTACAGGCTGGTGACAAAGTGGTCTGTTTA
GTGCTGGATGTGTCCAGCAAGATGGCAGAGGCTGACAGACTCCTTCAACTACAACAAGCCGAGAATTTTATTG
ATGCAGATTGTTGAAATTCATACCTTCGTGGGCATTGCCAGTTTCGACAGCAAAGGAGAGATCAGAGCCCAGCTA
CACCAAATTAACAGCAATGATGATCGAAAGTTGCTGGTTTCATATCTGCCACCCTGTATCAGCTAAAACAGAC
ATCAGCATTTGTTTCAAGGCTTAAGAAAGGATTTGAGGTGGTTGAAAACCTGAATGGAAGGCTTATGGCTCTGTG
ATGATATTAGTGACCAGCGGAGATGATAAGCTTCTTGGCAATTGCTTACCCACTGTGCTCAGCAGTGGTTCAACA
ATTCACTCCATTGCCCTGGGTTTCTGTCAGCCCCAAATCTGGAGGAATTATCACGTCTTACAGGAGGTTTAAAG
TTCTTTGTTCCAGATATATCAAACCTCCAATAGCATGATTGATGCTTTTCAGTAGAATTTCTCTGGAACCTGGAGAC
ATTTTCCAGCAACATATTAGCTTGAAAGTACAGGTGAAAATGTCAAACCTCACCATCAATTGAAAAACACAGTG
ACTGTGGATAATACTGTGGGCAACGACACTATGTTTCTAGTTACGTGGCAGGCCAGTGGTCTCTCTGAGATTATA
TTATTTGATCCTGATGGACGAAAATACTACACAAATAATTTTATCACCAATCTAACTTTTCGGACAGCTAGTCTT
TGGATTCCAGGAACAGCTAAGCCTGGGCACTGGACTTACACCTGAACAATACCCATCATTCTCTGCAAGCCCTG
AAAGTGACAGTGACCTCTCGCGCTCCAACCTCAGCTGTGCCCCAGCCACTGTGGAAGCCTTTGTGGAAGAGAC
AGCCTCCATTTTCTCATCTGTGATGATTATGCCAATGTGAAACAGGGATTTTATCCCATTCTTAATGCCACT
GTCATGCCACAGTTGAGCCAGAGACTGGAGATCCTGTTACGCTGAGACTCCTTGATGATGGAGCAGGTGCTGAT
GTTATAAAAAATGATGGAATTTACTCGAGGTATTTTCTCTCTTGTGCAATGGTAGATATAGCTTGAAAGTG
CATGTCAATCACTCTCCAGCATAAGCACCCAGCCACTCTATTCCAGGGAGTCATGCTATGTATGTACCAGGT
TACACAGCAAACGGTAATATTAGATGAATGCTCCAAGGAAATCAGTAGGCAGAAATGAGGAGGAGCGAAAGTGG
GGCTTTAGCCGAGTCAGCTCAGGAGGCTCCTTTTCAGTGTGGGAGTTCCAGCTGGCCCCCACCCTGATGTGTTT
CCACCATGCAAAATTATTGACCTGGAAGCTGTAAAGTAGAAGAGGAATTGACCCTATCTTGGACAGCACCTGGA
GAAGACTTTGATCAGGGCCAGGCTACAAGCTATGAAATAAGAAATGAGTAAAAGTCTACAGAATATCCAAGATGAC
TTTAAACAATGCTATTTTAGTAAATACATCAAAGCGAAATCCTCAGCAAGCTGGCATCAGGGAGATATTTACGTTT
TCACCCAGATTTCCACGAATGGACCTGAACATCAGCCAAATGGAGAAACACATGAAAGCCACAGAATTTATGTT
GCAATACGAGCAATGGATAGGAACCTCCTTACAGTCTGCTGTATCTAACATTGCCAGGCGCTCTGTTTATTCCC
CCCAATCTGATCCTGTACCTGCCAGAGATTATCTTATATTGAAAGGAGTTTTAACAGCAATGGGTTTGATAGGA
ATCATTGTCCTTATTATAGTTGTGACACATCATACTTTAAGCAGGAAAAAGAGAGCAGACAAGAAAGAGAATGGA
ACAAAATTATTAATAATAATATCCAAAGTGCTTCTTCTTAGATATAAGACCCATGGCCTTCGACTACAAAAA
CATACTAACAAAGTCAAATTAACATCAAACCTGTATTAAATGCATTGAGTTTTGTACAATACAGATAAGATTT
TTACATGGTAGATCAACAATTTCTTTTGGGGTAGATTAGAAAACCTTACACTTTGGCTATGAACAAATAATAA
AAATTATTCTTTAAAGTAATGCTTTTAAAGGCAAAGGGAAGGTTAAAGTCGGACCAGTGTCAAGGAAAGTTTGTT
TTATTGAGGTGGAAAAATAGCCCCAAGCAGAGAAAAGGAGGTTAGGCTGTCATTATAACTGTCTGTGTGAAGCAA
TCATTAGTTACTTTGATTAAATTTCTTTTCTCTTATCTGTGCAGAACAGGTGCTTGTGTTTACAACCTGAAGAT
CATGCTATATTTTATATATGAAGCCCTAATGCAAAGCTCTTACCTCTTGCTATTTGTTTATATATATTACAGA
TGAATCTCACTGCTAATGCTCAGAGATCTTTTTTCACTGTAAGAGGTAACCTTTAACAATATGGGTATTACCTT
TGCTCTTCATACCGGTTTTATGACAAAGTCTATTGAATTTATTGTTTGTAAAGTTTCTACTCCCATCAAAGCA

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FIGURE 578B

GCTTTCTAAGTTATTGCCTTGGTTATTATGGATGATAGTTATAGCCCTTATAATGCCTTACCTAGGAAA

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FIGURE 579

MTQRSIAGPICNLKFVTL LVALSSELPFLGAGVQLQDNGYNGLLIAINPQVPENQNLSNIKEMITEASFYLFNA
TKRRVFFRNIKILIPATWKANNNSKIKQESYEKANVIVTDWYGAHGDDPYTLQYRGCCKEGKYIHFTPNFLLNDN
LTAGYGSRRGRVVFHEWAHLRWGVFDEYNNDKPFYINGQNQIKVTRCSSDITGIFVCEKGPCPQENCII SKLFKEG
CTFIYNSTQNATASIMFMQSLSSVVEFCNASTHNQEAPNLQNMCSLRSAWDVITDSADFHHSFPMNGTELP PPP
TFSLVQAGDKVVCLVLDVSSKMAEADRLQLQQAEEFYLMQIVEIHTFVGIA SFDSKGEIRAQLHQINSNDDRKL
LVSYLPTTVSAKTDISICSGLKKGFVVEKLNKAYGSVMILVTS GDDKLLGNCLPTVLSSGSTIHSIALGSSAA
PNLEELSRLTGGLKFFVPDISNSNSMIDAFSRISSTGDI FQQHIQLESTGENVKPHHQLKNTVTVDN TVGNDTM
FLVTWQASGPPEIILFDPDGRKYYTNNFITNLTFRTASLWIPGTAKPGHWYTLNNTHSLQALKVTVTSRASNS
AVPPATVEAFVERDSLHFPHPVMIYANVKQGFYPI LNATVTATVEPETGDPVTLRLDDGAGADVIKNDGIYSRY
FFSFAANGRYSLKVHVNHSISSTPAHSIPGSHAMYVPGYTANGNIQMNA PRKSVGRNEEERKWGFSRVSSGGSF
SVLGVPAGPHPDVFPCKIIDLEAVKVEEELT LSWTAPGEDFDQGGQATSYEIRMSKSLQNIQDDFN NAILVNTSK
RNPQQAGIREIFTFSPQISTNGPEHQPNGETHESHRIYVAIRAMDRNSLQSAVS NIAQAPLFIPPNSDPVPARDY
LILKGVLTA MGLIGIICLIIVVTHHTLSRKKRADKKENGTKLL

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FIGURE 580

ACTGCGAAGCGGCTTCTTCAGAGCACGGGCTGGAAGTGGCAGGCACCGCGAGCCCCTAGCACCCGACAAGCTGAG
TGTGCAGGACGAGTCCCCACCACACCCACACCACAGCCGCTGAATGAGGCTTCCAGGCGTCCGCTCGCGGCCCCGC
AGAGCCCCCGCGTGGGTCCGCCCCTGAGGCGCCCCAGCCAGTGCCTTACCTGCCAGACTGCGCGCCATGGGG
CAACCCGGGAACGGCAGCGCCTTCTTGCTGGCACCCAATAGAAGCCATGCGCCGGACCACGACGTACGCAGCAA
AGGGACGAGGTGTGGGTGGTGGGCATGGGCATCGTCATGTCTCTCATCGTCTGGCCATCGTGTGGCAATGTG
CTGGTCATCACAGCCATTGCCAAGTTCGAGCGTCTGCAGACGGTCACCAACTACTTCATCACTTCACTGGCCTGT
GCTGATCTGGTCATGGGCCTGGCAGTGGTGGCCTTTGGGGCCGCCCATATTCTTATGAAAATGTGGACTTTTGGC
AACTTCTGGTGCAGTTTTGGACTTCCATTGATGTGCTGTGCGTCACGGCCAGCATTGAGACCTGTGCGTGATC
GCAGTGGATCGCTACTTTGCCATTACTTCACCTTCAAGTACCAGAGCCTGCTGACCAAGAATAAGGCCCCGGGTG
ATCATTCTGATGGTGTGGATTGTGTCAGGCCTTACCTCCTTCTTGCCATTGAGATGCACTGGTACCGGGCCACC
CACCAGGAAGCCATCAACTGCTATGCCAATGAGACCTGCTGTGACTTCTTCACGAACCAAGCCTATGCCATTGCC
TCTTCCATCGTGTCTTCTACGTTCCCTGGTGATCATGGTCTTCGTCTACTCCAGGCTCTTTCAGGAGGCCAAA
AGGCAGCTCCAGAAGATTGACAAATCTGAGGGCCGCTTCCATGTCCAGAACCTTAGCCAGGTGGAGCAGGATGGG
CGGACGGGGCATGGACTCCGCAGATCTTCCAAGTCTGCTTGAAGGAGCACAAAGCCCTCAAGACGTTAGGCATC
ATCATGGGCACTTTACCCTCTGCTGGCTGCCCTTCTTCATCGTTAACATTGTGCATGTGATCCAGGATAACCTC
ATCCGTAAGGAAGTTTACATCCTCCTAAATTGGATAGGCTATGTCAATTCTGGTTTCAATCCCCCTTACTGCTG
CGGAGCCCAGATTTAGGATTGCCTTCCAGGAGCTTCTGTGCCTGCGCAGGTCTTCTTTGAAGGCCATGCGAAT
GGCTACTCCAGCAACGGCAACACAGGGGAGCAGAGTGGATATCACGTGGAACAGGAGAAAGAAAATAAACTGCTG
TGTGAAGACCTCCAGGCACGGAAGACTTTGTGGGCCATCAAGGTACTGTGCCTAGCGATAACATTGATTACAA
GGGAGGAATTGTAGTACAAATGACTCACTGCTGTAAGCAGTTTTTCTACTTTTAAAGACCCCCCCCCCCCCAAC
AGAACACTAAACAGACTATTTAACTTGAGGGTAATAAACTTAGAATAAAATTGTAAAAATTGTATAGAGATATGC
AGAAGGAAGGGCATCCTTCTGCCTTTTTTATTTTTTAAAGCTGTAAAAAGAGAGAAAATTATTTGAGTGATTAT
TTGTTATTTGTACAGTTTCACTTCTTTGCAATGGAATTTGTAAGTTTATGTCTAAAGAGCTTTAGTCTAGAGG
ACCTGAGTCTGCTATATTTTCAATGACTTTTCCATGTATCTACCTCACTATTCAAGTATTAGGGGTAAATATATGC
TGCTGGTAATTTGTATCTGAAGGAGATTTTCTTCTACACCTTGACTTGAGGATTTTGAATATCTCGGACCT
TTCAGCTGTGAACATGGACTCTTCCCCACTCCTCTTATTTGCTCACACGGGTATTTTAGGCAGGGATTTGAGG
AGCAGCTTCAGTTGTTTTCCCGAGCAAAGGTCTAAAGTTTACAGTAAATAAAATGTTTGACCATG

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FIGURE 581

MGQPGNGSAFL LAPNRSHAPDHDVTQQRDEVWVVGMGIVMSLIVLAIVFGNVLVITAI AKFERLQTVTNYFITSL
ACADLVMGLAVVPFGAAHILMKMWTFGNFWCEFWTSIDVLCVTASIE TLCVIAVD RYFAITSPFKYQSLLTKNKA
RVIILMVWIVSGLTSFLPIQMHWYRATHQEAINCYANETCCDF TNQAYAIASSIVSFYVPLVIMVFVYSRVFQE
AKRQLQKIDKSEGRFHVQNLSQVEQDGRIGHGLRRSSKFCLKEHKALKT LGIIMGTFTLCWL PFFIVNIVHVIQD
NLIRKEYYILLNWIGYVNSGFNPLIYCRSPDFRIAFQELLCLRRSSLKAYGNGYSSNGNTGEQSGYHVEQEKENK
LLCEDLPGTEDFVGHQGTVPDNDISQGRNCSTNDSLL

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FIGURE 582

GGTTCAGGAACCTGCTGGTTCTGATACATAAATCAGACAGCCTCTGCTGTCATGACACGAAGCTTGCTTCTGCCTG
GCATCTGTGAGCAGCTGCCAGGCTCCGGCCAGGATCCCTTCCTTCTCCTCATTGGCTGATCGATCCCAAGGGGCT
CCTCTCCTTGACCTTCGTGCTGTTTCTCTCCCTGGCTTTTGGGGCAAGCTACGGAACAGGTGGGCGCATGATGAA
CTGCCCCAAGATTCTCCGGCAGTTGGGAAGCAAAGTGTCTGCTGCCCCTGACATATGAAAGGATAAATAAGAGCAT
GAACAAAAGCATCCACATTGTCTGTCACAATGGCAAAATCACTGGAGAACAGTGTGAGAACAAAATAGTGTCTCT
TGATCCATCCGAAGCAGGCCCTCCACGTTATCTAGGAGATCGCTACAAGTTTTATCTGGAGAATCTCACCCCTGGG
GATACGGGAAAGCAGGAAGGAGGATGAGGGATGTTACCTTATGACCCTGGAGAAAAATGTTTCAGTTCAGCGCTT
TTGCCTGCAGTTGAGGCTTTATGAGCAGGTCTCCACTCCAGAAATTAAAGTTTTAAACAAGACCCAGGAGAACGG
GACCTGCACCTTGATACTGGGCTGCACAGTGGAGAAGGGGGACCATGTGGCTTACAGCTGGAGTGAAAAGGCGGG
CACCCACCCACTGAACCCAGCCAACAGCTCCCACCTCCTGTCCCTCACCTCGGCCCCAGCATGCTGACAATAT
CTACATCTGCACCGTGAGCAACCCTATCAGCAACAATCCCAGACCTTCAGCCCGTGGCCCGGATGCAGGACAGA
CCCCCTCAGAAACAAAACCATGGGCAGTGTATGCTGGGCTGTTAGGGGGTGTATCATGATTCTCATCATGTTGGT
AATACTACAGTTGAGAAGAAGAGGTAACGAACATTACCAGACAACAGTGGAAAAAAGCCTTACGATCTA
TGCCCCAAGTCCAGAAACCAGGTCTCTTTCAGAAGAACTTGACTCCTTCCCAGCTCAGGACCCTTGACCACCAT
ATATGTTGCTGCCACAGAGCCTGTCCCAGAGTCTGTCCAGGAAACAAATCCATCACAGTCTATGCTAGTGTGAC
ACTTCCAGAGAGCTGACACCAGAGACCAACAAAGGGACTTTCTGAAGGAAAATGGAAAAACCAAATGAACACTG
AACTTGGCCACAGGCCCAAGTTTCTCTGGCAGACATGCTGCACGTCTGTACCCTTCTCAGATCAACTCCCTGGT
GATGTTTCTTCCACATACATCTGTGAAATGAACAAGGAAGTGAGGCTTCCAAGAATTTAGCTTGCTGTGCAGTG
GCTGCAGGCGCAGAACAGAGCGTTACTTGATAACAGCGTTCATCTTTGTGTTGTAGCAGATGAAATGGACAGTA
ATGTGAGTTCAGACTTTGGGCATCTTGCTCTTGGCTGGAACGATAATAAAAATCAGACTGAAAGCCAGGACATC
TGAGTACCTATCTCACACACTGACCACCAGTCACAAAGTCTGGAAAAGTTTACATTTTGGCTATCTTTACTTTGT
TCTGGGAGCTGATCATGATAACCTGCAGACCTGATCAAGCCTCTGTGCCTCAGTTTCTCTCTCAGGATAAAGAGT
GAATAGAGGCCGAAGGGTGAATTTCTTATTATACATAAAACACTCTGATATTATTGTATAAAGGAAGCTAAGAAT
ATTATTTTATTTGCAAAACCCAGAAGCTAAAAAGTCAATAAACAGAAAGAATGATTTTGAAGAA

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FIGURE 583

MDPKGLLSLTFVLFLSLAFGASYGTGGRMMNCPKILRQLGSKVLLPLTYERINKSMNKSIHIVVTMAKSLSENSVE
NKIVSLDPSEAGPPRYLGDRYKFYLENLTLGIRESRKEDEGWYLMLEKNVSVQRFCLQLRLYEQVSTPEIKVLN
KTQENGCTLILGCTVEKGDHVAYSWSEKAGTHPLNPANSSHLLSLTLGPQHADNIYICTVSNPISNNSQTFSPW
PGCRTDPSETKPWAVYAGLLGGVIMILIMVILQLRRRGKTNHYQTTVEKKSLTIYAQVQKPGPLQKKLDSFPAQ
DPCTTIYVAATEPVPESVQETNSITVYASVILPES

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FIGURE 584

ATTTAAATTCTGCAGCTCAGAGATTCACACAGAAGTCTGGACACAATTCAGAAGAGCCACCCAGAAGGAGACAAC
AAATGTCCTGCTACCCGTGCCATACACAGAGGCTGCCTCTTTGTCTACTGGTTCTACTGTGACAATCAAAGGGCG
ACCACTTGCCTGTTTCTTGAATGAACCATATCTGCAGGTGGATTTCCACACTGAGATGAAGGAGGAATCAGACAT
TGTCTTCCATTTCCAAGTGTGCTTTGGTCGTCGTGTGGTCATGAACAGCCGTGAGTATGGGGCCTGGAAGCAGCA
GGTGGAAATCCAAGAATATGCCCTTTCAGGATGGCCAAGAATTTGAACTGAGCATCTCAGTGTGCCAGATAAGTA
CCAGGTAATGGTCAATGGCCAATCCTCTTACACCTTTGACCATAGAATCAAGCCTGAGGCTGTGAAGATGGTGCA
AGTGTGGAGAGATATCTCCCTGACCAAATTTAATGTCAGCTATTTAAAGAGATAAACCAGACTTCATGTTGCCAAG
GAATCCCTGTCTCTACGTGAACTTGGGATTCCAAAGCCAGCTAACAGCATGATCTTTTCTCACTTCAATCCTTAC
TCCTGCTCATTAAACTTAATCAAACCTTCAAAAAAAAAA

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FIGURE 585

MSLLPVPYTEAASLSTGSTVTIKGRPLACFLNEPYLQVDFHTEMKEESDIVHFQVCFGRRVVMNSREYGAWKQQ
VESKNMPFQDQGEFELSISVLPDKYQVMVNGQSSYTFDHRIKPEAVKMQVWRDISLTGFNVSYLKR

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FIGURE 586

GCTGGTCGGAGGCTCGCAGTGCTGTGCGCGAGAAGCAGTCGGGTTTGGAGCGCTTGGGTCGCGTTGGTGCGCGGT
GGAACGCGCCAGGGACCCAGTTCCCGCGAGCAGCTCCGCGCCGCGCCTGAGAGACTAAGCTGAAACTGCTGCT
CAGCTCCCAAGATGTGTGCCACCCAAATTGCATGTGCTTTTCTGCCTCTGCGGCTGCCTGGCTGTGGTTTATCCTT
TTGACTGGCAATACATAAATCCTGTTGCCCATATGAAATCATCAGCATGGGTCAACAAAATACAAGTACTGATGG
CTGCTGCAAGCTTTGGCCAACTAAATCCCCGGGGAAATGGGCCTTATCCGTTGGTGTACAGACTTAATGT
TTGATCACACTAATAAGGGCACCTTCTTGCCTTTATATTATCCATCCCAAGATAATGATCGCCTTGACACCCTTT
GGATCCCAAATAAAGAATATTTTTGGGGTCTTAGCAAATTTCTTGGAACACACTGGCTTATGGGCAACATTTTGA
GGTTACTCTTTGGTTCAATGACAACCTCTGCAAACCTGGAATTTCCCTCTGAGGCCTGGTGAAAAATATCCACTTG
TTGTTTTTTCTCATGGTCTTGGGGCATTGAGGACACTTTATTCTGCTATTGGCATTGACCTGGCATCTCATGGGT
TTATAGTTGCTGCTGTAGAACACAGAGATAGATCTGCATCTGCAACTTACTATTTCAAGGACCAATCTGCTGCAG
AAATAGGGGACAAGTCTTGGCTCTACCTTAGAACCCTGAAACAAGAGGAGGAGACACATATACGAAATGAGCAGG
TACGGCAAAGAGCAAAGAATGTTCCCAAGCTCTCAGTCTGATTCTTGACATTGATCATGGAAAGCCAGTGAAGA
ATGCATTAGATTTAAAGTTTGATATGGAACAACCTGAAGGACTCTATTGATAGGGAAAAAATAGCAGTAATTGGAC
ATTCITTTTGGTGAGCAACGGTTATTGAGACTCTTAGTGAAGATCAGAGATTCAGATGTGGTATTGCCCTGGATG
CATGGATGTTTCCACTGGGTGATGAAGTATATTCCAGAATTCCTCAGCCCTCTTTTTTATCAACTCTGAATATT
TCCAATATCTGCTAATATCATAAAAAATGAAAAATGCTACTCACCTGATAAAGAAAGAAAGATGATTACAATCA
GGGGTTGAGTCCACCAGAATTTTGTGACTTCACTTTTGCAACTGGCAAAATAATTGGACACATGCTCAAATTA
AGGGAGACATAGATTCAAATGTAGCTATTGATCTTAGCAACAAAGCTTCATTAGCATTCTTACAAAAGCATTTAG
GACTTCATAAAGATTTTGATCAGTGGGACTGCTTGATTGAAGGAGATGATGAGAATCTTATTCCAGGGACCAACA
TTAACACAACCAATCAACACATCATGTTACAGAACTCTTCAGGAATAGAGAAATACAATTAGGATTAAATAGGT
TTTTT

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FIGURE 587

MVPPKLHVLFCCLGCLAVVYPFDWQYINPVAHMKSSAWVNKIQVLMAAASFGQTKIPRGNGPYSVGCTDLMFDHT
NKGTFRLRYPSQDNDRLDTLWIPNKEYFWGLSKFLGTHWLMGNILRLLFGSMTTPANWNSPLRPGEKYPLVVS
HGLGAFRTLYSAIGIDLASHGFIVA AVEHRDRSASATYYFKDQSAAEIGDKSWLYLRTLKQEEETHIRNEQVRQR
AKECSQALSLILDIDHGKPVKNALDLKFDMEQLKDSIDREKIAVIGHSFGGATVIQTLSEDQRFRCGIALDAWME
PLGDEVYSRIPQPLFFINSEYFQYPANIIKMKKCYSPDKERKMITIRGSVHQNFADFTFATGKIIGHMLKLKGD
DSNVAIDL SNKASLAFLQKHLGLHKDFDQWDCLIEGDDENLIPGTNINTTNQHIMLQNSSGIEKYN

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FIGURE 588

GAGAGACTGGATGGACCCACAAGGGTGACAGCCAGGCGGACCGATCTTCCCATCCCACATCCTCCGGCGCGATG
CCAAAAAGAGGCTGACGGCAACTGGGCCTTCTGCAGAGAAAGACCTCCGCTTCACTGCCCCGGCTGGTCCCAAGG
GTCAGGAAGATGGATTCTACCTGCTGATGTGGGGACTGCTCAGTTTCATCATGGTGCCTGGCTGCCAGGCAGAG
CTCTGTGACGATGACCCGCCAGAGATCCCACAGCCACATTCAAAGCCATGGCCTACAAGGAAGGAACCATGTTG
AACTGTGAATGCAAGAGAGGTTTCCGCAGAATAAAAAGCGGGTCACTCTATATGCTCTGTACAGGAACTCTAGC
CACTCGTCCTGGGACAACCAATGTCAATGCACAAGCTCTGCCACTCGGAACACAACGAAACAAGTGACACCTCAA
CCTGAAGAACAGAAAGAAAGGAAAACCACAGAAATGCAAAGTCCAATGCAGCCAGTGGACCAAGCGAGCCTTCCA
GGTCACTGCAGGGAACCTCCACCATGGGAAAATGAAGCCACAGAGAGAATTTATCATTTCGTGGTGGGGCAGATG
GTTTATTATCAGTGCGTCCAGGGATACAGGGCTCTACACAGAGGTCTGCTGAGAGCGTCTGCAAAATGACCCAC
GGGAAGACAAGGTGGACCCAGCCCCAGCTCATATGCACAGGTGAAATGGAGACCAGTCAAGTTCCAGGTGAAGAG
AAGCCTCAGGCAAGCCCCGAAGGCCGCTCTGAGAGTGAGACTTCTGCTCGTCACAACAACAGATTTTCAAATA
CAGACAGAAATGGCTGCAACCATGGAGACGTCCATATTTACAACAGAGTACCAGGTAGCAGTGGCCGGCTGTGTT
TTCTGCTGATCAGCGTCTCTCTCTGAGTGGGCTCACCTGGCAGCGGAGACAGAGGAAGAGTAGAAGAACAATC
TAGAAAACCCAAAAGAACAAGAATTTCTTGTAAGAAGCCGGGAACAGACAACAGAAGTCATGAAGCCCAAGTGAA
ATCAAAGGTGCTAAATGGTCGCCCAGGAGACATCCGTTGTGCTGCTGCGTTTGGAAAGCTCTGAAGTCACATC
ACAGGACACGGGGCAGTGGCAACCTTGTCTCTATGCCAGCTCAGTCCCATCAGAGAGCGAGCGCTACCCACTTCT
AAATAGCAATTTGCGCGTTGAAGAGGAAGGGCAAAACCACTAGAACTCTCCATCTTATTTTCATGTATATGTGTT
CATTAAAGCATGAATGGTATGGAATCTCTCCACCTATATGTAGTATAAAGAAAAGTAGGTTTACATTCTATCTC
ATTCCAATTTCCAGTTTCAAGAGTCCCAAGGAAAGCCCCAGCACTAACGTAAATACACAACACACACTCTACC
CTATACAACTGGACATTGTCTGCGTGGTTCCCTTCTCAGCCGCTTCTGACTGCTGATTCTCCCGTTTACGTTGCC
TAATAAACATCCTTCAAGAACTCTGGGCTGTACCCAGAAATCATTTTACCCTTGGCTCAATCCTCTAAGCTAAC
CCCCTTCTACTGAGCCTTCAGTCTTGAATTTCTAAAAAACAGAGGCCATGGCAGAATAATCTTTGGGTAACTTCA
AAACGGGGCAGCCAAACCCATGAGGCAATGTGAGGAACAGAAGGATGAATGAGGTCCCAGGCAGAGAATCATACT
TAGCAAAGTTTTACCTGTGCGTTACTAATTGGCCCTCTTTAAGAGTTAGTTTCTTTGGGATTGCTATGAATGATAC
CCTGAATTTGGCCTGCACTAATTGATGTTTACAGGTGGACACACAAGGTGCAAATCAATGCGTACGTTTCCCTGA
GAAGTGTCTAAAAACACCAAAAAGGGATCCGTACATTCAATGTTTATGCAAGGAAGGAAAGAAAGGAAGTGA
AGAGGGGAGAAGGGATGGAGGTACACTGGTAGAACGTAACCACGGAAGAGCGCATCAGGCCTGGCACGGTGGC
TCAGGCCTATAACCCAGCTCCCTAGGAGACCAAGGCGGGAGCATCTCTTGAGGCCAGGAGTTTGAGACCAGCCT
GGGCAGCATAGCAAGACACATCCCTACAAAAATTAGAAATTGGCTGGATGTGGTGGCATAACGCTGTAGTCCTA
GCCACTCAGGAGGCTGAGGCAGGAGGATTGCTTGAGCCCAGGAGTTTCGAGGCTGCAGTCAGTCATGATGGCACCA
CTGCACTCCAGCCTGGGCAACAGAGCAAGATCCTGTCTTTAAGGAAAAAAGACAAGG

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FIGURE 589

MDSYLLMWGLLTFIMVPGQAE LCDDDPPEIPHATFKAMAYKEG TMLNCECKRGFRRIKSGSLYMLCTGNSSHSS
WDNQCQCTSSATRNTTKQVTPQPEEQKERKTTEMQSPMQPVDQASLPGHCREPPWENEATERIYHFVVGQMVYY
QCVQGYRALHRGPAESVCKMTHGKTRWTQPQLICTGEMETSQFPGEEKPQASPEGRPESETSCLVTTTDFQIQTE
MAATMETSIFTTEYQVAVAGCVFLLISVLLSGLTWQRRQRKSRTI

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FIGURE 590

ATCTTTTTTCATCTTCTAGCTGTAGCTCGGGCTGCTTGTGCGCTTGGCTCCCCCTCCCCCTTTGCTCTCTGCCT
CGTCTTTCCCCAGGACTTCGCTATTTTGTCTTTTTTAAAAAAGGCAAGAAAGAACTAAACTCCCCCTCCCTCTC
CTCCAGTCGGGCTGCACCTCTGCCTTGCACTTTGCACAGAGGTAGAGAGCGCGGAGGGAGAGAGAGGAAAGAAA
AAAAATAATAAGAGAGCCAAGCAGAAGAGGAGGCGAGAAGCATGAAGTGTTAACTCCCCGTGCCAAGGCCCGC
GCCGCCGGACAGACGCCCGCGCGCTTCCAGCCCCGAGCGGACGCCGCGCGCGCCCTGCCTGCAGCCCCGGC
CGGCGACGGCGAGCCCTTCCTTATGCAAAGCGCGCCAGCAGCGCAAGGCGGGACGCCGCGCACCGGGCCGGGT
CCTCCAGCTTCGCCCGCGAGCCACCACCGCCGCCACCGCAGCTCGCGGAGGATCTTCCCAGCCTGAAGCCGCC
GGCTCGGCGCGCAAGGAGGCGAGCGCAAGGAGGGGCCGGGCGAGCGAGGGAGCACATTGGCGTGAGCAGGGGGG
AGGGAGGGCGGGCGGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGG
CCACCGCCGCGCAAGCTAGAAGCGCCCCAGCCCGCAAGCTGGCTCACCCGCTGGCCACCCAGCACAGCCCGCTG
GCCCCCTCTCTGCAGCCCATCTGGCGGAGCGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGC
ATGAGCAACTCCGACCTGCCACCACTGCCCTGGCCATGGAATATGTTAATGACTTCGATCTGATGAAGTTTGAA
GTGAAAAAGGAACCGGTGGAGACCGACCGCATCATCAGCCAGTGGCGCGTCTCATCGCCGGGGGCTCGCTGTCC
TCCACCCCATGAGCACGCCGTGCAGCTCGGTGCCCCCTTCCCCAGCTTCTCGGCGCCCAGCCCGGGCTCGGGC
AGCGAGCAGAAGGCGCACCTGGAAGACTACTACTGGATGACCGGCTACCCGCGAGCAGCTGAACCCCGAGGCGCTG
GGCTTCAGCCCCGAGGACGCGGTGAGGCGCTCATCAGCAACAGCCACCAGCTCCAGGGCGGCTTCGATGGCTAC
GCGCGCGGGGCGCAGCAGCTGGCCGCGGGCGGGGCGGGGCGGGTGGCGGCGCTCCTTGGGCGGCAGCGGCGAGGAG
ATGGGCCCCGCGGCCCGCTGCTGTCGCGGTGATCGCCGCGCGCGCGCGCAGAGCGGCGCGGGCCCCGCACTAC
CACCACCACCACCACCACGCCCGGGCCACCACCACCACCACCGACGGCCGCGCGCCCCGCGCGCGGGCAGCGCG
GCCGCTCGGCCGTGGCGCTGGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGG
GGCGGCGGAGGCGGGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGGCGGGG
TTCGACGACCGCTTCTCCGACGAGCAGCTGGTGACCATGTCTGTGCGCGAGCTGAACCGGCAGCTGCGCGGGGTC
AGCAAGGAGGAGGTGATCCGGCTGAAGCAGAAGAGGCGGACCTGAAAAACCGCGGCTATGCCAGTCTCTGCCG
TTCAAGAGGGTGCAGCAGAGACGTCCTGGAGTCGGAGAAGAACCAGCTGCTGCAGCAAGTCGACCACCTCAAG
CAGGAGATCTCCAGGCTGGTGCAGAGAGGACGCGTACAAGGAGAAATACGAGAAGTTGGTGAGCAGCGGCTTC
CGAGAAAACGGCTCGAGCAGCGACAACCGTCTCTCCGAGTTTTTCATAACTGAGCCCACTCGCAAGTTGGAG
CCATCAGTGGGATACGCCACATTTTGAAGCCCCAGCATCGTGTACTTACCAGTGTGTTACAAAAATGAATTTG
TGTGAGAGCTGTACATTAAAAAAAACATATTATTATTATTATTGTCAGTCATGGAGAACCACCTACCCCTGACT
TCTGTTTAGTCTCCTTTTTAAATAATACTGTGTTAGAAAAAAA

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FIGURE 591

MASELAMNSDLPTSPPLAMEYVND FDLMKFEVKKEPVETDRIISQCGRLIAGGSLSSTPMSTPCSSVPPSPSFSA
PSPGSGSEQKAHLEDYYWMTGYPQQLNPEALGFSPEDAVEALISNSHQGGFDGYARGAQQQLAAAAGAGAGASL
GGSGEEMGPAAAVVSAVIAAAAAQSGAGPHYHHHHHHAAGHHHPTAGAPGAAGSAAASAGGAGGAGGGGPASAG
GGGGGGGGGGGAAGAGGALHPHHAAGGLHFDDRFSDEQLVTMSVRELNRQLRGVSKEEVIRLKQKRRTLKNRG
YAQSCRFRVQQRHVLESEKNQLLQQVDHLKQEISRLVRERDAYKEYEKLVS SGFRENGSSSDNPSSPEFFITE
PTRKLEPSVGYATFWKPQHRVLT SVFTK

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FIGURE 592

AGCTCAGCAGGACCTCAGCCATGAGACTTCTCATCCTGGCCCTCCTTGGCATCTGCTCTCTCACTGCATACATTG
TGGAAGGTGTAGGGAGTGAAGTCTCAGATAAGAGGACCTGTGTGAGCCTCACTACCCAGCGACTGCCGGTTAGCA
GAATCAAGACCTACACCATCACGGAAGGCTCCTTGAGAGCAGTAATTTTTATTACCAAACGTGGCCTAAAAGTCT
GTGCTGATCCACAAGCCACATGGGTGAGAGACGTGGTCAGGAGCATGGACAGGAAATCCAACACCAGAAATAACA
TGATCCAGACCAAGCCAACAGGAACCCAGCAATCGACCAATACAGCTGTGACTCTGACTGGCTAGTAGTCTCTGG
CACCCTGTCCGTCTCCAGCCAGCCAGCTCATTTCACCTTTACACGCTCATGGACTGAGTTTATACTCACCTTTTAT
GAAAGCACTGCATGAATAAAATTATTCCTTTGTATTTTTACTTTTAAATGTCTTCTGTATTCACTTATATGTTCT
AATTAATAAATTATTTATTATTAAGAATAGTTCCTAGTCTATTTCATTATATTTAGGGAAAGGTAGTGTATCATT
GTTGTTTGATTTCTGACCTTGTACCTCTCTTTGATGGTAACCATAATGGAAGAGATTCTGGCTAGTGTCTATCAG
AGGTGAAAGCTATATCAATCTCTTTAGAGTCCAGCTTGTAATGGTTCTTTACACATCAGTCACAAGTTACAGCT
GTGACAATGGCAACAATTTGAGATGTATTTCAACTTGTCTCTATAATAGAATTCTGTTTATAGAATAAGGGAGAA
AATAATCCAGTCTTCACTGGGTTCCTATTCTGAGGGTCCACTACTCAAAAATTGCTTCACTCAATTTTTTTCAC
CTCTTTGTGTTTTATTTTGGTGTCTTATTAAGGAATAAAATGACACAACCTTGTCCTTTTTTGTCCCATTAGCA
AAAATTAGAATTTTGGTATAAAGAACTTTATTCAAGTAAAAATCAATACCCTTTGAATTGGACAATAATCTCAC
TACCTTATTAGGATTTCTGTATTTGCCATTACGCTAGTTATCATGCATGTTATGCCTTTACTGCGAATAAGCTTTT
AATGCTCCAAATGCTGACCCATGCAATATTTCTCATGTGATCACAATTTGCAGTAACTTTTAAATTAATGCTC
ATCTGGTAACTCAACACCCAG

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FIGURE 593

MRLILALLGICSLTAYIVEGVGSEVSDKRTCVSLLTQRLPVSRIKTYTITEGSLRAVIFITKRGLKVCADPQAT
WVRDVVRSMRKSNTNRNMIQTKPTGTQQSTNTAVTLTG

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FIGURE 594

GAGTCAGCCCCGGGGGAGGCCATGAACGCCACGGGGACCCCGGTGGCCCCCGAGTCCTGCCAACAGCTGGCGGC
CGGCGGGCACAGCCGGCTCATTGTTCTGCACTACAACCACTCGGGCCGGCTGGCCGGGCGCGGGGGGCCGGAGGA
TGGCGGCTGGGGGGCCCTGCGGGGGCTGTCGGTGGCCGCCAGCTGCCTGGTGGTGCTGGAGAACTTGCTGGTGCT
GGCGGCCATCACCAGCCACATGCGGTGCGGACGCTGGGTCTACTATTGCCTGGTGAACATCAGCTGAGTGACCT
GCTCAGGGGCGGGCCCTACCTGGCCAACGTGCTGCTGTCGGGGGCGCCGACCTTCCGTCTGGCGCCCGCCAGTG
GTTCTACGGGAGGGCCTGCTCTTACCGCCCTGGCCGCTCCACCTTCAGCCTGCTCTTCACTGCAGGGGAGCG
CTTTGCCACCATGGTGGCGCGGTGGCCGAGAGCGGGGCCACCAAGACCAGCCGCGTCTACGGCTTCATCGGCCT
CTGCTGGCTGCTGGCCGCGCTGCTGGGGATGCTGCCTTTGCTGGGCTGGAACTGCCTGTGCGCCTTTGACCGCTG
CTCCAGCCTTCTGCCCCCTACTCCAAGCGCTACATCCTCTTCTGCTGGTGATCTTCGCCGGCGTCTTGGCCAC
CATCATGGGCCTCTATGGGGCCATCTTCCGCTGGTGCAGGCCAGCGGGCAGAAGGCCCCACGCCAGCGGGCCG
CCGCAAGGCCCGCCGCTGCTGAAGACGGTGTGATGATCCTGCTGGCCTTCTGGTGTGCTGGGGCCCACTCTT
CGGGCTGTGCTGGCCGACGCTTTGGCTCCAACCTCTGGGCCAGGAGTACCTGCGGGGATGGACTGGATCCT
GGCCTGGCCGTCTCAACTCGGCGGTCAACCCATCATCTACTCCTTCCGAGCAGGGAGGTGTGCAGAGCCGT
GCTCAGCTTCTCTGCTGCGGGTGTCTCCGGCTGGGCATGCGAGGGCCCGGGGACTGCCTGGCCCGGGCCGTGCA
GGCTCACTCCGGAGCTTCCACCACCGACAGCTCTCTGAGGCCAAGGGACAGCTTTCGCGGCTCCCGCTCGCTCAG
CTTTGGATGCGGGAGCCCTGTCCAGCATCTCCAGCGTGGGAGCATCTTGAAGTTGCAGTCTTGCCTGTGGATG
GTGCAGCCACCGGGTGGTGGCAGGCAGGCCCTCTGGGGTACAGGAAGCTGTGTGCACGCAGCCTCGCCTGTAT
GGGGAGCAGGGAACGGGACAGGCCCCCATGGTCTTCCCGGTGGCCTCTCGGGGCTTCTGACGCCAAATGGGCTTC
CCATGGTCACCTGGACAAGGAGGTAACCAACCCACCTCCCGTAGGAGCAGAGACACCCTGGTGTGGGGGCGA
GTGGTTCCCCACAACCCCGCTTCTGTGTGATTCTGGGGAAGTCCCGGCCCTCTTGGGCCTCAGTAGGGCTCCC
AGGCTGCAAGGGGTGGACTGTGGGATGCATGCCCTGGCAACATTGAAGTTCGATCATGGTAAAAAA

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FIGURE 595

MNATGTPVAPESCQQLAAGGHSRLIVLHYNHSGRLAGRGGPEDGGLGALRGLSVAASCLVVLENLLVLAAITSHM
RSRRWVYYCLVNITLSDLLTGAAYLANVLLSGARTFRLAPAQWFLREGLLFTALAASTFSLFTAGERFATMVRP
VAESGATKTSRVYGFIGLCWLLAALLGMLPLLGNCLCAFDRCSLLPLYSKRYILFCLVIFAGVLATIMGLYGA
IFRLVQASGQKAPRPAARRKARRLLKTVLMILLAFLVCWGPLFGLLLADVFGSNLWAEYLRGMDWILALAVLNS
AVNPIIYSFRSREVCRAVLSFLCCGCLRLGMRGPGDCLARAVEAHSGASTTDSSLRPRDSFRGSRSLSRMREPL
SSISSVRSI

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FIGURE 596

GTGGGCAGCCGAGGCCGCGAACTGCATCATGGGAGAATTTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCC
GCCTCTTGAAGAAGTGTCTGTGGCCAGGCGGAAAGCAGTGAGAAGCCCAACGCTGAGGACATGACATCCAAAGA
TTACTACTTTGACTCCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTA
CCGCAACTCCATGTTTTATAACCGGCACCTCTTCAAGGACAAGGTGGTGCTGGACGTCGGCTCGGGCACCAGGCAT
CCTCTGCATGTTTGCTGCCAAGGCCGGGGCCCGCAAGGTCATCGGGATCGTGTGTTCAGTATCTCTGATTATGC
GGTGAAGATCGTCAAAGCCAAACAAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCT
CCCAGTGGAGAAGGTGGCATCATCATCAGCGAGTGGATGGGCTACTGCCTCTTCTACGAGTCCATGCTCAACACC
GTGCTCTATGCCCGGGACAAGTGTGGCGCCCGATGGCCTCATCTTCCAGACCGGGCCACGCTGTATGTGACGGC
CATCGAGGACCGGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTGCAT
CAAAGATGTGGCCATTAAGGAGCCCTAGTGGATGTCGTGGACCCCAAACAGCTGGTCACCAACGCCTGCCTCAT
AAAGGAGGTGGACATCTATACCGTCAAGGTGGAAGACCTGACCTTCACCTCCCCGTTCTGCCTGCAAGTGAAGCG
GAATGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTCACACGCTGCCACAAGAGGACCGGCTTCTC
CACCAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTCTACATGGAGGACTACCTGACCGTGAAGAC
GGGCGAGGAGATCTTCGGCACCATCGGCATGCGGCCCAACGCCAAGAACAACCGGGACCTGGACTTCACCATCGA
CCTGGACTTCAAGGGCCAGCTGTGCGAGCTGTCTGCTCCACCGACTACCGGATGCGCTGAGGCCCCGGCTCTCCC
GCCCTGCACGAGCCCAGGGGCTGAGCGTTCTAGCGGTTTCGGGGCTCCCCCTTCTCTCCCTCCCTCCCGCAG
AAGGGGGTTTTAGGGGCTGGGCTGGGGGGATGGGGAGGGCACATCGTGACTGTGTTTTTCATAACTTATGTTTT
TATATGGTTGCATTTACGCCAATAAATCCTCAGCTGGG

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FIGURE 597

MENFVATLANGMSLQPPLEEVSCGQAESSEKPNADMTSKDYFFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRH
LFKDKVVLVDVSGTGILCMFAAKAGARKVIGIVCSSISDYAVKIVKANKLDHVVTIIKGKVEEVELPVEKVASS
ASGWATASSTSPCSTPCSMPGTSVAPDGLIFPD RATLYVTAIEDRQYKDYKIHWVENYGFDMSCIKDVAIKEPL
VDVVDPKQLVTNACLIKEVDIYTVKVEDLTFTSPFCLQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTH
WKQTVFYMEDYLTIVKTGEEIFGTIGMRPNAKNNRDLDFITDLDFKGQLCELSCTDYMR

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FIGURE 598

ACAGGGGTGAAGGCCAGAGACCAGCAGAACGGCATCCCAGCCACGACGGCCACTTTGCTCTGTCTGCTGTCCGC
CACGGCCCTGCTCTGTTCCCTGGGACACCCCGCCCCCACCTCCTCAGGCTGCCTGATCTGCCCAGCTTTCCAGC
TTTCTCTGGATTCCGGCCTCTGGTCATCCCTCCCCACCCTCTCTCCAAGGCCCTCTCCTGGTCTCCCTTCTTCT
AGAACCCCTTCTCCACCTCCCTCTCTGCAGAACTTCTCCTTTACCCCCACCCCCACCACTGCCCCCTTCTCT
TTTCTGACCTCCTTTTGGAGGGCTCAGCGCTGCCAGACCATAGGAGAGATGTGGGAGGCTCAGTTCCCTGGGCTT
GCTGTTTCTGCAGCCGCTTTGGGTGGCTCCAGTGAAGCCTCTCCAGCCAGGGGCTGAGGTCCCGGTGGTGTGGG
CCAGGAGGGGGCTCTGCCAGCTCCCTGCAGCCCCACAATCCCCCTCCAGGATCTCAGCCTTCTGCGAAGAGC
AGGGGTCACTTGGCAGCATCAGCCAGACAGTGGCCCCGCCGCTGCCGCCCCGGCCATCCCTGGCCCCCGGCC
TCACCCGGCGCGCCCTCCTCCTGGGGGCCAGGCCCGCCGCTACACGGTGCTGAGCGTGGGTCCCGGAGGCCT
GCGCAGCGGGAGGCTGCCCTGCAGCCCCGCTCCAGCTGGATGAGCGCGGCCGAGCGCGGGGACTTCTCGCT
ATGGCTGCGCCAGCCCGCGCGGACGCCGCGGAGTACCGCGCGCGGTGCACCTCAGGACCGCGCCCTCTC
CTGCCGCTCCGTCTGCGCCTGGGCCAGGCCTCGATGACTGCCAGCCCCCAGGATCTCTCAGAGCCTCCGACTG
GGTCATTTTGAAGTGTCTCTCAGCCGCCCTGACCGCCAGCCTCTGTGCATTGGTTCCGGAACCGGGGCCAGGG
CCGAGTCCCTGTCCGGGAGTCCCCCATCACCCTTAGCGGAAAGCTTCTCTTCTGCCCAAGTCAGCCCCAT
GGACTCTGGGGCCTGGGGCTGCATCCTCACCTACAGAGATGGCTTCAACGTCTCCATCATGTATAACCTCACTGT
TCTGGGTCTGGAGCCCCAACTCCCTTGACAGTGACGCTGGAGCAGGTTCCAGGTGGGGCTGCCCTGCCGCT
GCCTGCTGGTGTGGGACCCGGTCTTTCTCACTGCCAAGTGGACTCCTCCTGGGGAGGCCCTGACCTCCTGGT
GACTGGAGACAATGGCGACTTTACCCTTCGACTAGAGGATGTGAGCCAGGCCAGGCTGGGACCTACACCTGCCA
TATCCATCTGCAGGAACAGCAGCTCAATGCCACTGTACATTGGCAATCATCACAGTGACTCCCAAATCCTTTGG
GTCACCTGGATCCCTGGGGAAGCTGCTTTGTGAGGTGACTCCAGTATCTGGACAAGAACGCTTTGTGTGGAGCTC
TCTGGACACCCCATCCAGAGGAGTTTCTCAGGACCTTGGCTGGAGGCACAGGAGGCCAGCTCCTTTCCAGCC
TTGGCAATGCCAGCTGTACCAGGGGGAGAGGCTTCTTGGAGCAGCAGTGTACTTCACAGAGCTGTCTAGCCCAGG
TGCCCAACGCTCTGGGAGAGCCCCAGGTGCCCTCCCAGCAGGCCACCTCCTGCTGTTTTCTACCCCTTGGTGTCT
TTCTCTGCTCCTTTTGGTGACTGGAGCCTTTGGCTTTACCTTTGGAGAAGACAGTGGCGACCAAGACGATTTTC
TGCCCTTAGAGCAAGGGATTACCCCTCCGAGGCTCAGAGCAAGATAGAGGAGCTGGAGCAAGAACCGGAGCCGGA
GCCGGAGCCGGAACCGGAGCCCGAGCCCGAGCCCGAGCCGAGCAGCTCTGACCTGGAGCTGAGGCGAGCCAGCAG
ATCTCAGCAGCCAGTCCAAATAAACGTCCTGTCTAGCAGC

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FIGURE 599

MWEAQFLGLLFLOPLWVAPVKPLQPGAEPVVWVAQEGAPAQLPCSTIPLQDLSLLRRAGVTWQHQPDSGPPAAA
PGHPLAPGPHPAAPSSWGPRPRRYTVLSVGPGLRSGRLPLQPRVQLDERGRQRGDFSLWLRPARRADAGEYRAA
VHLRDRALESCRLRLRLGQASMTASPPGSLRASDWVILNCSFSRPDRPASVHWFRNRGQGRVPVRESFHHHLAESF
LFLPQVSPMDSGFWGCILTYRDGFNVSIMYNLTVLGLEPPTPLTVYAGAGSRVGLPCRLPAGVGTRSFILTAKWTP
PGGGPDLLVTGDNGDFTLRLEDVSQAQAGTYTCHIHLEQQQLNATVILAIITVTPKSFSGPSGLKLLCEVTPVS
GQERFVWSSLDTPSQRSFSGPWLEAQEAQLLSQPWQCQLYQGERLLGAAYFTELSSPGAQRSGRAPGALPAGHL
LLFLTGLVLSLLLLVTGAFGFHLWRRQWRPRRFSALEQGIHPRQAQTQDRGAGARTGAGAGAGTGARARARAGAA
LTWS

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FIGURE 600

GTTTTCAGGCTCTTGGCGGTGAAGGTCAGAGTGCAGACCTGAGACCCTGCTCACCAGCTTCAGACTCCAGTTA
TCTGTGCCCCAGCTTCCCTCACTTAGTCTCAGAAGACTTAGGCTGAGGCCTCAGAAGGAGATCTCCATCCTTTGTC
CAGAGCAGAACAGGATGGCCATGTCCCAGGAATCATTGACCTTCAAGGACGTGTTTGTGGACTTCACCCTGGAGG
AGTGGCAGCAACTGGACTCTGCCCAGAAGAACTCTACAGGGATGTATGCTTGAGAACTACAGCCACCTGGTGT
CCGTGGGGTATCTAGTTGCGAAGCCTGATGTGATCTTCAGGTTGGGACCAGGTGGAGAGTCTGGATGGCAGATG
GGGGGACCCCGGTACGGACCTGTGCAGAAGTCTGGCAAGTTGATGAGCAGATAGATCACTACAAGGAAAGCCAAG
ACAAACTTCCCTGGCAAGCTGCATTTCATAGGCAAGGAAACACTGAAGGATGAAAGCGGTCAAGAATCCAGAACAT
GTAGAAAAAGCATTATCTGAGCACAGAATTTGATTCTGTAAGGCAAAGACTCCCTAAATATTATTTCGTGGGAAA
AGGCATTCAAAACATCATTAAACTTTCTTGGTCAAAATGGAAGCTATGTAAGAAAGAAAGATGATGGATGTAAA
GCATATTGGAAGTATGCTTCCATTATAATCTTCATAAAGCTCAACCTGCAGAGAGATTTTTTGACCCTAATCAA
CGAGGGAAAGCCCTCCACCAAAAGCAAGCCCTTAGAAAAAGTCAGAGAAGTCAAAGTGGGGAGAACTCTACAAA
TGTACTGAATGTGGAAAAGTGTATCCAGAAAGCAAACCTTAGTTGTACATCAAAGAACTCACACCGGAGAGAAA
CCTTATGAATGCTGCGAATGTGCAAAAGCCTTCAGCCAGAAGTCAACCCTCATAGCACACCAGAGAAGTACACA
GGGGAGAAGCCCTATGAATGCAGTGAATGTGGAAAAACCTTTATCCAGAAGTCAACTCTGATTAAACATAAGAAA
ATTTCATATGGAGAGAGACCCTATAAATGCAGTGTCTGTGAGAAAGCCTTCAGTAGGAAGTCAACTCTCATTAAAC
ATCAGATAATTTCATATGGGAGAAACCTTATGAATGTAATAAATGTGGGAAATCTTTAGTGTTAAATCAAGTCTC
ATTGTATGTCACAGAACATAAATGCATAAGTTGCATGCTATTGTGAATAGTGTGATGAAATTTTGCAGTGTCTCTG
CTCTTTCTGCTCAGGATGCAAATCAGTGAATCTTTTTTTTTTTTTTTTTTGTAGACAGAGTCTTGTCTGTGCAT
CCAAACTGGAGTGCAGTGGCACAATCTTGGCTCACTGCAACCTCCGCCTCTTGGGTTCAACCGATTCTCCTGCCT
CAACCTCCCAAATAGTTGGGATTACAGGCACATGCCACCATACGCAGCTAATTTGTATTTTGTAGAGACAGGG
TTTACCATGTTGGCCAGCCTGGTCTTGAACCTCTGACCTCAAGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCT
GGGATTACAGGCATGAGCCACTGCACCCGGCTTGAATCATCCTTTTGTCCAGTATTATATCCATGCTGTATATGC
TACCCGCCCCTAGTCCCTTAGCTGTCTCAGTTGTGATGACTGTGATGGGATTGCAGTGTGCTGATTAAAGC
TACCTTATTGTATAATGACCCCAAAGTGCAAGAGTAGTGATGTTGGCAATTTGCATACACCAAAAAATAAGTTAT
AAAGTGCTTCTTAAAGTGAAATGGTTAAAGTCTTGACTTAATAAAGAAAAAAATGTATGCTGAGGTTGTTAA
GATTTACAGTAAGAATGAATCTTCTATCCAGAAATTGTGAAGGAGGAAAAAGAACTTGTGCTAGTTTTGCTGTC
ACATCTGAAACTGCAAAAGTTGTGGCCACAGTGCATCATAAGTGCTAAGACGAAAAAGACATTAAATTTGCGGAT
GGAAGGCGTGAATAGAAATGGGTCTGACAGCAATCAGGTTCCGTACTATTACAGTTTCAGGCATCCGCTAGGG
ATCTTGGAACATATCCCCATGGATAAGGGAGGGGTACTGTACCTTGTGATATTGTGATTAAAGAATTCATTGA
GTGTAATCATGTAAGTCTAACACACATTTAAAAAGCTCTCAGATATCATTTCGCCTTCGGTTGATGTAAGAAAAT
TCAAAGCTACTCAAATCATTCAATAAATGATAAAATTATTTAAAAA

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FIGURE 601

MAMSQESLTFKDVFDFTLEEWQQLDSAQKNLYRDVMLENYSHLVSVGYLVAKPDVIFRLGPGGESWMADGGTPV
RTCAEVWQVDEQIDHYKESQDKLPWQAAFIGKETLKDESGQESRTC RKSIYLS TEFD SVRQLPKYYSWEKAFKT
SFKLSWSKWLCKKER

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FIGURE 602

AGATTGCGGGCCGCGTCGACGGTGCGCCACCGGTCCCGCCGGGCGCCCGGGACGCGCCGCCAGGGCCCTCTC
CGCCGGGGGCTCGGGCGCTCGCCACCTCTTCCAAATTTAACCATTAACCTAAATCCGAAGGGAAATGAGCAAACCT
CTCGGATTGGGTGTCAAGGTCTCCTCCGGGCTGGGGCTGAGCAAGCCCTCGGAGTGACCGTGGGTGACAGCGGT
CCAGGGACTCTTGGGGCGCAGTGGGGAAAGTGCCGGACCACCATGCGCGCTCATTCTCGTCAAAAGCAAGAAG
GCTCACAGCTACCACCAGCCGCGCTCCCCAGGACCAGACTATTCCCTCCGTTTAGAGAATGTACGGCGCCCTAGC
CGAGCAGACAGCACTTCAAATGCAGGCGGGGCGAAAGCGGAGCCCCGGGACCGTTTGTCCCCGAATCGCAGCTG
ACCGAAGCCCCAGACAGAGCCTCCGCATCCCCAGACAGCTGCGAAGCAGCGTCTGCGAACGGAGCTCGGAGTTT
GAGGACTTCTGGAGGCCCCCGTACCCCTCCGCGTCTCCAGCCTCGGAGAAGTCAATGTGCCCATCGCTGGACGAA
GCCCAGCCCTTCCCCCTGCCTTTCAAACCGTACTCATGGAGCGGCCTGGCGGGTTCTGACCTGCGGCACCTGGTG
CAGAGCTACCAGACCGTGTGGGGCCCTGGAGCGTGGCGCTGGCCTGGGCTCTTCTGTGAACCCGCCCCGGAGCCT
GGCCACCCGGCCGCGCTGTACGGCCCGAAGCGGGCTGCCGCGCGCGCGGGGCGCGGGGCGCCAGGGAACCTGCATC
GCAGGGGCGGGTGCCACCGCTGGCCCTGGCCTAGGGCTCTACGGCGACTTCGGGTCTGCGGCAGCCGGGCTGTAT
GAAAAGCCACCGCAGCGCGGGCTTGCTGTACCCCGAGCGTGGCCACCGGCTGCACGCAACAAAGGCGCTGGC
GTCAAGGTGGAGTCGGAGCTGCTGTGCACCCGCTGCTGCTGGGCGCGGGCTCTACAAGTGCATCAAGTGCAGC
AAGGTGTTTTCCACGCCGACGGGCTCGAGGTGCAGTGCAGGTCCCACAGCGGTACCAGACCCCTTTGCCTGC
GAGATGTGCGGCAAGACCTTCGGGCACGCGGTGAGCCTGGAGCAGCACAAAGCCGTGCACTCGCAGGAACGGAGC
TTTGACTGTAAGATCTGTGGGAAGAGCTTCAAGAGGTATCCACACTGTCCACACACCTGCTTATCCACTCAGAC
ACTCGGCCCTACCCCTGTCTAGTACTGTGGCAAGAGGTTCCACCAGAAGTCAGACATGAAGAAACACACTTTCATC
CACACTGGTGAGAAGCTTCAAGTGCCAGGTGTGCGGCAAGGCATTAGCCAGAGCTCCAACCTCATCACCAC
AGCCGCAACACACAGGCTTCAAGCCCTTCGGCTGCGACCTCTGTGGGAAGGTTTCCAGAGGAAGGTGGACCTC
CGAAGGCACCGGGAGACGCAGCATGGGCTCAAATGAGCACCCCTGGCTGGCTGCAAGCAGCAGTACACAACACTA
CAGAGGGCAGCCTCCCTGCTTGCCACCACTCTGCTCCCTGCTTGCTCCACTCCCTTCTGACTTCCAGACCCCA
GGTCCAGTCTGCAGATCCTACCAGGTTGCTCCTCCTTCGCCTTACCTCCTGGAGCTGCCAGAAGAAATGAGGTAC
CTTTTCAAAGTGCAGCCGAGAGTGAGAACCAAGTGAATCCTTAGGCTTCGGACACAAATAGGCTCCTCTACACCT
GAAGACAAAGGCAAAGTCAAATGGGGACCAGAATAAATCTTAGACCCACAGTCCTTCCCATTTCAGCCTTAAT
CTACAGACAGGAATGCCCTTCAGGTTTCTTCCCTTCCCCCTTCTTGACCTACCCAGATATTTGTGTGGAAGAGGA
GGAATCACCATTACAAGGTGGACAAATGCTAATATTTTTATCTAGAAAGAAGAGTGAGTGTTAACTTTTATTTT
TTTCTTCTGGGGGCTCTGTGACTCCTTTCTTTTGGGTGCTGCCATAAATCTTGAGGAATCATTTCTCCTCC
TCAAAAACCTGATTGAGAACTGACTTGGGGAAGGAATTTAATACTTTGAAGTCATGAGATGCACCATCGAGGCTA
CCCCCAAGAAGAAGCAGAAGAGAAGTTGGTAATGAGAGGGGATTAGAGGTCCCTCCCTTCAGTAGGGCTGTGAAAA
CCTCATCACTGGAGGTAAGCAAGCAATGCCTGTGGACAAGATGTCATTCACTCAGCAAATGTTTCATG
GATCACCGGCTACCAAGTACCAGGCACCATGTTAGGTATTGGGGAAGAGAGACTGAAGTCACAACCCCTGACTGC
TCCTCAAAAGCTAACGGTTGCACCTCCAAGTGGCTGGGTCTGTTCTTACTCTTGAGGGGAATTCTGAGAAGACAG
CACAGAATTGTAAACCTTCCCTTTTGACCCTTTTGGATTTTATCAGGTGTAAACAAAAGCTGAACAGTTACTTC
AAAGATATGTGTATATTAGTTTTTTATTGTTAAGCTGATATTTTAAAGATTTCTGAGCTAGCAGGCATGTGG
GAAGGAAGGCTCTGTCTTCAACTCTTGACCCCTCATGTGTACCATAGAGGGGGGAAAGGTGGTATTTTCACTTT
GATGAGGTTGGTAAATGTTTTTAGATCTTCTGGTAAGCATTATGTTTGTAAATACATATTTATTAGAGTGATGTT
TTAAGTTAATAAAGTATTAAGAGTAAAAA

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FIGURE 603

MPRSFLVKSKKAHSYHQPRSPGPDYSLRLENVPAPSRADSTSNAGGAKAEPRDRLSPESQLTEAPDRASASPRQL
RSSVCERSSEFEDFWRPPSPSASPASEKSMCPSSLDEAQPFLPFKPYSWSGLAGSDLRHLVQSYRPGALERGAG
LGLFCEPAPEPGHPAALYGPRAAGGAGAGAPGNCIAGAGATAGPGLGLYGDFGSAAAGLYEKPTAAAGLLYPER
GHRHLHANKGAGVKVESELLCTRLLGGGSYKCIKCSKVFSTPHGLEVHVRRSHSGTRPFACEMCGKTFGHAVSLE
QHKAVHSQERSFDCKICGKSFKRSSTLSTHLLIHS DTRPYPCQYCGKRFHQKSDMKKHTFIHTGEKLHKCQVCGK
AFSQSSNLITHSRKHTGFKPFGCDLCGKGFQRKVDLRRHRETQHGLK

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FIGURE 604

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCCTGAGCTTCGCAATTCCTGTGTGCGCTTCTGGGCTCCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGAGCTGGTTTTTTTGGCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCGGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCCAGAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCACTGCCATCAATGGC
AACCCATCCTGGCACCTGGCAGACAGCCCCGGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTGAACTGCGGTACCGGCGG
GCATTGAGTGACCTGACATCCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGATACTTTT
GTGGAATCTATGGGAACAATGCAGCAGCCGAGAGCCGAAAGGGCCAGGAACGCTTCAACCGTGGTTCTGACG
GGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCACTCTTCAGTCGGAATGACCAGACACTGACCATCCACTC
TACCCCTCCACCCCTTCTCTGCTCCACCACATCCTCCGTCCAGCCGCCATTGCCACCAGGAGAACCACTACATG
CAGCCCATGCCACCTGCCATCACAGGGTTGGGCCAGATCTGGTCCCTTGCAGCTAGTTTTCTAGAATTTATC
ACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTGGCCTCAGAAATTCACAAAATTCCACAAAACTGTCCAAA
GGAGGCTGGCAGGTATGGAAGGGTTGTGGCTGGGGGCAGGAGGGCCCTACCTGATTGGTGCAACCCTTACCCCT
TAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTGAAAGTTTTCAGAACCTCTTCCCCAGAAAGGAGACTAGA
TTGCCTTTGTTTTGATGTTTGTGGCTCAGAATTGATCATTTCCTCCCCACTCTCCCCACACTAACCTGGGTTC
CTTCCTTCCATCCCTACCCCTAAGAGCCATTTAGGGGCCACTTTGACTAGGGATTGAGGCTGCTTGGGATAA
AGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGACTGGCTAGAGTCCTCACTCCAGTCCAAATGTCCTCCAG
AAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCT
AGGGTGGCCCTTGCACTTCAGCACCACCCTAGTCCCTTCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAA
CTGGGCCCCAAGACAGATGCCCCAGAGCTGTTTATGGCCTCAGCTGCCTCACTTCTTACAAGAGCAGCCTGTGGCA
TCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAGGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAG
CTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTA
GGGCTGACTAGAAGGGCCAGTCTCCTGCTGGCCAGGCAGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGG
CTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTCAGGCCTCCCTCTCTCTTCTGCTCCACCCTTGGCCTGTCT
CATCCCCAGGGGTCCCAGCCACCCCGGGCTCTCTGCTGTACATATTTGAGACTAGTTTTATTCTTGTGAAGAT
GATATACTATTTTTGTTAAGCGTGTCTGTATTTATGTGTGAGGAGCTGCTGGCTTGCACTGCGCGTGCACGTGGA
GAGCTGGTGCCCGGAGATTGGACGGCCTGATGCTCCCTCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTCT
GGCTCCTGAGGGGCATCTGCCCCTCCCCAACCCCCACCCACACTTGTTCCAGCTCTTTGAAATAGTCTGTGTG
AAGGTGAAAGTGCACTTCAGTAATAAACTGTGTTTACTCAGTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 605

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGGWDTFVELYGNNAEAESRKGQERFNRWFLTGMTVAGVVL
LGSLSRK

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FIGURE 606

AACACATTTTCATCTGGGCTTCTTAAATCTAAATCTTTAAATGACTAAGTTTCTTCCTTTTCTCTGTTTTTCCT
AATAGTTGGGGCTTATATGACTCATGTGTGTTTCAATATGGAAATTATTGGAGGGAAAGAAGTGTCACCTCATT
CAGGCCATTTATGGCTCCATCCAGTATGGCGGACATCACGTTTGTGGAGGTGTTCTGATTGATCCACAGTGGGT
GCTGACAGCAGCCCACIGCCAATATCGGTTTACCAAAGGCCAGTCTCCCACTGTGGTTTTAGGCGCACACTCTCT
CTCAAAGAATGAGGCCTCCAAACAAACACTGGAGATCAAAAAATTTATACCATTCTCAAGAGTTACATCAGATCC
TCAATCAAATGATATCATGCTGGTTAAGCTTCAAACAGCCGCAAACTCAATAAACATGTCAAGATGCTCCACAT
AAGATCCAAACCTCTCTTAGATCTGGAACCAAATGCAAGGTTACTGGCTGGGGAGCCACCGATCCAGATTCATT
AAGACCTTCTGACACCCTGCGAGAAGTCACTGTTACTGTCTTAAGTCGAAAACCTTGCAACAGCCAAAGTTACTA
CAACGGCGACCCTTTTATCACCAAAGACATGGTCTGTGCAGGAGATGCCAAAGGCCAGAAGGATTCCTGTAAGGG
TGACTCAGGGGGCCCTTGATCTGTAAAGGTGTCTTCCACGCTATAGTCTCTGGAGGTGATGAATGTGGTGTTC
CACAAAGCCTGGAATCTACACCCTGTTAACCAAGAAATACCAGACTTGGATCAAAAGCAACCTTGTCCTCCCTCA
TACAAATTAAGTTACAAATAATTTTATTGGATGCACTTGCTTCTTTTTCTTAATATGCTCGCAGGTTAGAGTTG
GGTGTAAGTAAAGCAGAGCACATATGGGGTCCATTTTGCCTGTAAAGTCATTTTATTAAGGAATCAAGTTCTT
TTTCACTTGTATCACTGATGTATTCTACCATGCTGGTTTTATTCTAAATAAAATTTAGAAGACT

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FIGURE 607

MTKFSSFSLFFLIIVGAYMTHVCFNMEIIGGKEVSPHSRPFMASIQYGGHHVCGGV LIDPQWVLTA AHCQYRFTKG
QSPTVVLGAHSLSKNEASKQTL EIKKFIPFSRVTS DPQSNDIMLVKLQTAAKLNKHVKMLHIRSKTSLRSGTKCK
VTGWGATDPDSL RPSDTLREVTVTVLSRKLCNSQSYNGDPFITKDMVCAGDAKGQKDSCKGDSGGPLICKGVFH
AIVSGGHECGVATKPGIYTLLTKKYQTWIKSNLVP PHTN

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FIGURE 608

GGGGCGACGTGAGCGCGCAGGGGGGCGGCGCCTCGCCTCGTCTCTCTCTGCGCCTGGGTGCGGTGGGTGACG
CCGAGAGCCAGAGAGATGTCGGATTTTCGACAGTAACCCGTTTGCCGACCCGGATCTCAACAATCCCTTCAAGGAT
CCATCAGTTACACAAGTGACAAGAAATGTTCCACCAGGACTTGATGAATATAATCCATTCTCGGATTCTAGAACA
CCTCCACCAGGCGGTGTGAAGATGCCTAATGTACCCAATACACAACCAGCAATAATGAAACCAACAGAGGAACAT
CCAGCTTATACACAGATTGCAAAGGAACATGCATTGGCCCAAGCTGAACTTCTTAAGCGCCAGGAAGAAGTAGAA
AGAAAAGCCGCAGAATTAGATCGTCGGGAACGAGAAATGCAAAACCTCAGTCAACATGGTAGAAAAAATAATTGG
CCACCTCTTCCTAGCAATTTTCTGTGCGGACCTTGTTTCTATCAGGATTTTCTGTAGACATTCTGTAGAATTC
CAAAAGACAGTAAAGCTTATGTACTACTTGTGGATGTTCCATGCAGTAACACTGTTTCTAAATATCTTCGGATGC
TTGGCTTGGTTTTGTGTTGATTCTGCAAGAGCGGTTGATTTGGATTGAGTATCCTGTGGTTCTTGCTTTTTACT
CCTTGTTCAATTTGTCTGTTGGTACAGACCCTTTATGGAGCTTTCAGGAGTGACAGTTCATTTAGATTCTTTGTA
TTCTTCTTCGTCTATATTTGTCAGTTTGCTGTACATGTACTCCAAGCTGCAGGATTTCTAACTGGGGCAATTGT
GGTTGGATTTTCATCCCTTACTGGTCTCAACCAAAATATTCTGTTGGAATCATGATGATAATCATAGCAGCACTT
TTCACAGCATCAGCAGTCATCTCACTAGTTATGTTCAAAAAAGTACATGGACTATATCGCACAAACAGGTGCTAGT
TTTGAGAAGGCCCAACAGGAGTTTGCAACAGGTGTGATGTCCAACAAAACGTCCAGACCGCAGCTGCAATGCA
GCTTCAACTGCAGCATCTAGTGCAGCTCAGAATGCTTTCAAGGGTAACCAGATTTAAGAATCTTCAAACAATACA
CTGTTACCTTTTGAAGTGTACCTTTTTCTCCAGTTACTGTATTCTACAAATATTTTATGTTCAAACACACAGTA
CAGACAGCATGGATATTTCTGTTCACTTGTGCATGGGCTAAAACCAGGAAAACCTTCCTTGCTTATTACTTTAC
CTAATAGTTTCTTAATATTTTCAGTGCCCTTGCGAGAAAAAATATTACATGCTAAATAAATATCTCCATATTTT
GGGGGATGACATTCAGTGAATTATTTTCAGTGGTGACCCACTGAAAATTAATAATGGTACTTATGATTAAAAACGC
ATTTAATACTAAGTGCAGTAGTTCTTTCAAGAATCTTTAGAGATAAGGATTGCACATTGGAAAAGTAAACCATGT
TTCATTCCTTTTTCCCTATTTATATTGAAAGAAATAGGCCAGCAGAGACTTAGGGATTTTAAATTGGCTTGCTTT
TTAGCTGTTTCAGTCACCAGTGAAGAGCCTATGTGCATTTTGTAGTAGATAATGTAAAATTTGTCATCTTTTTCT
TTTCTTTTTTTTAGAATAGCTGATATTTTGATAACAATCTCTAATTTGCATGGGCACCACATTTCTTATATTAAA
AGAATTAGTGTTTTGGCTTCTGTACTGCTTATGGTTGTAGGATTTCAGGGGTTAATGGAATCACAGAAATGATATT
CTGCAAGAATTTCTTTTAAATAAAAAGTTTGGGGGTGCAATATAAGAAGTTTATATAATATGCAGTACATTATCC
AAAAGAGAAGGTAGTTAATGCAGTAGAAAGTAGTGGTAATAATTCTTTTTT

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FIGURE 609

MSDFDSNPFADPDLNNPFKDP SVTQVTRNVPPGLDEYNPFSDSRTPPPGGVKMPNVPNTPQPAIMKPTEEHFAYTQ
IAKEHALAQAE LLKRQEELERKAAELDRREREMQNLSQHGRKNNWPPLP SNFPVGPFCFYQDFSVDIPVEFQKTVK
LMYYLWMFHAVTLFLNIFGCLAWFCVDSARAVDFGLSILWFLLFTPCSFVCWYRPLYGAFRSDSSFRFFVFFVY
ICQFAVHVLQAAGFHNWGNCGWISSLTGLNQNI PVGIMMIIIAALFTASAVISLVMFKKVHGLYRTTGASFEKAQ
QEFATGVMSNKT VQTAAANA ASTAASSAAQNAFKGNQI

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FIGURE 610

GGGAGGCGTGAGCCACCGCGCCTGTCCAGGAATCAGTTTTTTCCAACAAGTTTTTGGACTCCACTTTGAGAAATC
CTGACCTGCACTATGCCTGAAACACTCCAAAGGGGGTGCTGATCTGGAGACAGATCTGTCCTGGGACCTGTTTCA
GCCCTGTGAGCTCCTGGTGGCTGAGTTGAAGGGTGTTGGCCAAAAGGCAGGGCAAAGCTAGCTTCTGGGTTCCCT
CAGCCCCTGCAAGGTTTGGGACTCTGTCCACAGGTCCAGACCCAGTACTTATTATGAACTGTGGGGGTGCATCC
TGGTGCCAGCACTGAGGAAGTTAAACGAGCTTCTTCTCCAAGTCCAAAGAGGTACCCGTACCCCTGAGGTGGGG
AGGGGGAGCAGGAACCTTTGAGCCAGTGGGGGTGTGCTTCAAATTCCCAGGAGTAGACCAGCATCTCTGGTGGGTG
CCACATTTTTTTCAGCCCTCATAGGGAGTGGCAGGTGCTCAATGGTAGGGGAAAGGCTGTGGGCAGGAGCCAGGGG
TCCTGTCTGATGGGCTGGGCTTGGTTTTCTTGACCTGCCTGCCTGCTCTTGAGAAACCTGGACCAGGGCATATGG
TGAATGCAGGGGGCTGGCAGGTGGGGAGGGCTTGAACACAGGAGGAAGCAGGAGTCCATGCTCTCTGGCCTTCTG
AGGAGTGGGCAGGCCTGAGTGAGGGTCACTGACCAGGCAGGGCCTCTGGGTATGACTGGAGCCCTGGTGGGTGGA
TGTCATCAGCATGGGTCCTGGGGAGGGACAGGCAAAGGGAGATAAGGGGAGTCTGCCCCACCCAGCTGCACCC
AGACCGGGACCCTGGGAACCCAAGCCTGCACAGCCGCTTTGTGGAGCTGAGCGAGGCATACCGTGTGCTCAGCCG
TGAGCAGAGCCGCCGAGCTATGATGACCAGTCCGCTCAGGTAGTCCCCCAAAGTCTCCACGAACCACAGTCCA
TGACAAGTCTGCCCACCAAACACACAGCTCCTGGACACCCCCCAACGCACAGTACTGGTCCCAGTTTCACAGCGT
GAGGCCACAGGGGCCCCAGTTGAGGCAGCAGCAACACAAACAAACAAACAAGTGTGGGGTACTGCCTCCTCCT
CATGCTGGCGGGCATGGGCCTGCACTACATTGCCTTCAGGTGATGCCTGTTCTCCCCGGGGTGATGGGCAAAGGG
CAGGAGGGTGGGTGAATTCCAGTGTGGTCAGCCAGTCTCCACAGCACCTCGTGGCCCGTACTCTGTGTCTCTC
AAGCTAAACTGCTTGAAGTTGGTCTCTGGACCTCTCCTTACTTATTAAAGGCAGCGCTGCACCAAAAAAAAAA
AAAAA

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FIGURE 611

MGPGEQAKGDKGSPAPPQLHPDRDPGNPSLHSRFVELSEAYRVLSREQSRRSYDDQLRSGSPFKSPRTTVHDKS
AHQTHSSWTPPNAQYWSQFHSVRPQGPQLRQQQHKQNKQVLGYCLLLMLAGMGLHYIAFR

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FIGURE 612

GGGCTGCTCCACGCTTTTGCCGGAGACAGAGACTGACATGGAACAGGGGAAGGGCCTGGCTGTCCTCATCCTGGC
TATCATTCTTCTTCAAGGTACTTTGGCCCAGTCAATCAAAGGAAACCACTTGGTTAAGGTGTATGACTATCAAGA
AGATGGTTCGGTACTTCTGACTTGTGATGCAGAAGCCAAAAATATCACATGGTTTAAAGATGGGAAGATGATCGG
CTTCCTAACTGAAGATAAAAAAAATGGAATCTGGGAAGTAATGCCAAGGACCCTCGAGGGATGTATCAGTGTA
AGGATCACAGAACAAGTCAAAACCACTCCAAGTGTATTACAGAATGTGTCAGAACTGCATTGAACTAAATGCAGC
CACCATATCTGGCTTTCTCTTGCTGAAATCGTCAGCATTTTCGTCCTTGCTGTTGGGGTCTACTTCATTGCTGG
ACAGGATGGAGTTCGCCAGTCGAGAGCTTCAGACAAGCAGACTCTGTTGCCCAATGACCAGCTCTACCAGCCCCT
CAAGGATCGAGAAGATGACCAGTACAGCCACCTTCAAGGAAACCAAGTTGAGGAGGAATTGAATCAGGACTCAGA
GTAGTCCAGGTGTTCTCCTCTATTCAAGTCCCAGAAATCAAAGCAATGCATTTTGGAAGCTCCTAGCAGAGAGA
CTTTCAGCCCTAAATCTAGACTCAAGGTTCCCAGAGATGACAAATGGAGAAGAAAGGCCATCAGAGCAAATTGG
GGGTTTCTCAAATAAAATAAAATAAAACAAATACTGTGTTTCAGAAGCGCCACCTATTGGGGAAAATTGT

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FIGURE 613

MEQGKGLAVLILAIILLQGTLAQSIKGNHLVKVYDYQEDGSVLLTCDAEAKNITWFKDGKMIGFLTEDKKKWNLG
SNAKDPRGMYQCKGSQNKSKPLQVYYRMCQNCIELNAATISGFLFAEIVSIFVLAVGVYFIAGQDGVRQSRASDK
QTLLPNDQLYQPLKDREDDQYSHLQGNQLRRN

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FIGURE 614

GATTTCAGTTGAAAGATGTGTTTTTGTGAGTAGAGCACCAGCAGAAGAACTGAAGACTGTTGTGTGCTCCCCGCAG
AAGGGGCTACCATGATCCCTTCTCCTATAACACCATCCAGTCGGTTTTCTGTTGCTGCTGTTGCTGTTTCTAGTGC
AGAAGCGACAAATGAGAACACAGATAAGCCTGAGCACAGATGAAGAGCTTCCAGAAAAATACCCAGCATCGCA
GGCCGTGGCTCAGCCAATTGTCAAATAAGAAGCAATCCAACACGGGCCGTGTGCAGCCGTCAAACGAAAGCCAC
TGCCTCCCCTCCCACCCTCTGAGGTTGCTGAAGAGAAGATCCAAGTCAAGGCACCTTTATGATTTTCTGCCCAGAG
AACCCTGTAATTTAGCCTTAAGGAGAGCAGAAGAATACCTGATACTGGAGAAATACAATCCTCACTGGTGGAAAGG
CAAGAGACCGTTTGGGGAATGAAGGCTTAATCCCAAGCAACTATGTGACTGAAAACAAAATACTAATTTAGAAA
TATATGAGTGGTACCATAGAAACATTACCAGAAATCAGGCAGAACATCTATTGAGACAAGAGTCTAAAGAAGGTG
CATTTATTGTGAGAGATTCAAGACATTTAGGATCCTACACAATTTCCGTATTTATGGGAGCTAGAAGAAGTACGG
AGGCTGCCATAAAACATTATCAGATAAAAAAGAATGACTCAGGACAGTGGTATGTGGCTGAAAGACACGCCCTTC
AATCAATCCCTGAGTTAATCTGGTATCACCAGCACAAATGCACCGGCTCTCATGACTCGTCTCCGATATCCAGTTG
GGCTGATGGGCAGTTGTTTACCAGCCACAGCTGGGTTTAGCTACGAAAAGTGGGAGATAGATCCATCTGAGTTGG
CTTTTATAAAGGAGATTGGAAGCGGTCAGTTTGGAGTGGTCCATTTAGGTGAATGGCGGTCACATATCCAGGTAG
CTATCAAGGCCATCAATGAAGGCTCCATGTCTGAAGAGGATTTCAATTGAAGAGGCCAAAGTGAATGAAATTAT
CTCATTCAAAGCTAGTGCAACTTTATGGAGTCTGTATACAGCGGAAGCCCTTTACATTGTGACAGAGTTTCATGG
AAAATGGCTGCCTGCTTAACATCTCAGGGAGAATAAAGGAAAGCTTAGGAAGGAAATGCTACTGAGTGTATGCC
AGGATATATGTGAAGGAATGGAATATCTGGAGAGGAATGGCTATATTATAGGGATTTGGCGGCAAGGAATTGTT
TGGTCAGTTCAACATGCATAGTAAAAATTTAGACTTTGGAGTGAACAAGGTACGTTTTGGATGATGAGTATGTCA
GTTCTTTTGGAGCCAAGTTCCCAATCAAGTGGTCCCCTCCTGAAGTTTTCTTTTCAATAAGTACAGCAGTAAAT
CTGATGTCTGGTCATTTGGAGTTTTAATGTGGGAAGTTTTTACAGAAGGAAAAATGCCTTTTGAAAAATAAGTCAA
ATTTGCAAGTCGTGGAAGCTATTTCTGAAGGCTTCAGGCTATATCGCCCTCACCTGGCACCAATGTCCATATATG
AAGTCATGTACAGCTGCTGGCATGAGAAACCTGAAGGCCGCCCTACATTTGCGGAGCTGCTGCGGGCTGTACAG
AGATTGCGGAAACCTGGTGACCGGAAACAGAATGCCAACCCAAAGAGTCATCTTGCAAACTGTCATTTATTGTG
AATATCTTCACCATATGGGGTCACTTATGGTGAATATCTTTCTTCAGAGTTGCTGACTCTTGAAAACAGTGCAAA
GATCACAGTTTTTAAAAGTTTTAAAAATTTAAGAATATTCACACAATCGTTTTTCTATGTTGTGAGAGGGATTTGC
ACACTCTTATTTTTCTGTAAATATTTACATCCCAAATGTGAAGAAGTGAAAAAGACTTCGCAGCAGTCTTCAT
TGTGGTGTCTTTCATGATCATAGCCCCAGGAACCCCTTGAGGTTCTTCTTCACAAGGCTGAGAGTGCTTCCTTCTT
GAAGACGAGTGTCAATTCATCACCTCAGTGATCCATGCATAGAATATGAAATAAATTTCCCACTCATGGGATA
AAGGGGACTCCCTTGAAGAATTTCAATGTTTTTGGGCTGTATAGCTCTTTACAGAAAATGCACCTTTATAAATCAC
ATGAATGTTAGTATTCTGGAATGTCTTTTGTAAATATAATCTTCCCATGTTATTTAACAATTTGTTTTGCACA
TATCTGATTATATTGAAAGCAGTTTTTTTGCATTGAGTTTTTAAACACTGTTATAAAATGTAGCCAAAGCTCACC
TTTGAACAGATCCCGGTGACATTCTATTTCCAGGAAAATCCGGAACCTGATTTTAGTTCTGTGATTTTACATTT
TTACATGTGAGATTGGACAGTTTCAGAGGCCTATTTTGTCTACTAAGTGTCTCCTGTAATTTTCAGGAAGATG
ATTTGTTCTTTCCAGAAGAGGAGACAAAAGCAAGATAGCCAAATGTGACATCAAGCTCCATTGTTTCGGAAATCC
AGGATTTTGAATTC

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FIGURE 615

MILSSYNTIQSVFCCCCCSVQKRQMRTQISLSTDEELPEKYTQHRRPWLSQLSNKKQSNIGRVQPSKRKPLPPL
PPSEVAEEKIQVKALYDFLPREPCNLALRRAEYLI LEKYNPHWWKARDRLGNEGLIPSNYVTENKITNLEIYEW
YHRNITRNQAEHLLRQESKEGAFIVRDSRHLGTYTISVFMGARRSTEAAIKHYQIKKND SGQWYVAERHAFQSIP
ELIWIYQHNAAGLMTRLRYPVGLMGSCLPATAGFSYEKWEIDPSELAFIKEIGSGQFGVVHLGEWRSHIQVAIKA
INEGSMSEEDFIEEAKVMMKL SHSKLVQLYGVCIQRKPLYIVTEFMENGCLLNYLRENKGKLRKEMLLSVCQDIC
EGMEYLERNGYIHRDLAARNCLVSSTCIVKISDFGMTRYVLDDEYVSSFGAKFP IKWSPPEVFLFNKYSSKSDVW
SFGVLMWEVFTGKMPFENKSNLQVVEAISEGFRLYRPHLAPMSIYEVMYSCWHEKPEGRPTFAELLRAVTEIAE
TW

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FIGURE 616

ATGTGGTGGAGAGTTCTCAGCTTGCTGGCATGGTTCCCCTTGCAAGAGGCCTCTCTGACTAACCACACAGAAACC
ATCACCGTGGAGGAAGGCCAGACGCTCACTCTAAAGTGTGTCACCTTCTCTGAGGAAGAAGCTCTCCCTCCAGTGG
CTGACCCCTCAGGGTTCACCATTTTTTAAATGAGTATCCTGCTTTAAAAAATTCCAAATACCAGCTTCTTCAT
CACTCGGCCAATCAGCTCTCCATCACTGTGCCTAACGTAACCTGCAAGATGAAGGCGTGTAAGTGCTTACAT
TACAGCGACTCTGTAAGCACAAAGGAAGTGAAAGTGATTGTGCTGGCAACTCCTTTCAAGCCAATCCTGGAAGCT
TCAGTTATCAGAAAGCAAAATGGAGAAGAACATGTTGTACTCATGTGCTCCACCATGAGAAGCAAGCCCCCTCCG
CAGATAACCTGGCTACTTGGGAATAGCATGGAAGTGTCGGTGGAACGCTCCATGAATTTGAAACTGATGGGAAG
AAATGTAATACTACCAGCACTCTCATAATCCACACTTATGGCAAAAATTCAACGGTGGACTGCATTATCCGACAC
AGAGGCCTGCAAGGGAGAAAAGTAGTAGCACCTTCCGGTTTGAAGATTTGGTTACTGATGAAGAGACAGCTTCA
GATGCTCTGGAGAGAACTCTCTATCCTCTCAAGACCCACAGCAGCCACCACTACTGTCTCAGTAACGGAAGAT
TCTAGTACATCGGAGATTGACAAGGAAGAGAAAGAAACAAACCACTCAAGATCCTGACTTGACCACCGAAGCAAAAT
CCTCAGTATTTAGGACTGGCAAGAAAGAAAAGTGGCATCCTGCTGCTCAGCTGGTGTCTTCTCATTTTTTATA
CTCTTCATCATAGTCCAGCTCTTCATCATGAAGCTGAGGAAAGCACATGTGATATGGAAGAGAGAAAACGAAGTT
TCAGAACACACACTAGAAAGTTACAGATCAAGGTCAAATAATGAAGAAACATCATCTGAAGAGAAAAATGGCCAA
TCTTCCACCCCTATGCGTTGCATGAACATACATCAAAAGTTGTACTCAGAAGCAAAAACAAAGAGGAAGGAAAAT
GTACAACATTCAAAATTAGAAGAAAAGCACATCCAAGTACCAGAGAGTATTGTGTAGTGCTCTCTGCAATGGAAC
ATGTGATTTTCAAGGGTTGCCGAGTGTACCTCAGTGGACCAGCCTGGGGGAAGGAGCTTAATTGCTGAGACATTA
ATAATGACCTCTTAGTGCAATGCAAGATGGTGTCTCGGATAATGATCTGCCCCGGAGCTAGGGCAGCAACATGA
GGACCAAAACCATGCACATAAAGCTTGTAGTTTAAAAAAGAAAAGCAAAAAAATAATTATGCCTGACACTACTTCA
GAGCAGGAGGATTCTACGAAGCCTTGGGGATCAGGGTCAGTGTGAGCAGCTAACATCCTACCTCAAATGGAACAG
GATTTTTTGTATGCTTTGCTCTAATGGAAGTGTTTAAAAATTTTTTTTTCTTTTAAATATTTTCTTCTGGTCACA
AAATAAAGAAATTTGGGATGCAAAGTACCTAAAGATCTCTGATCCTAAGAAGTTACTTCTGGCCAGGCGCGGTGG
CTCATGCCTGTAATCCTAGCACTTTGGGAGGCTGAGGTAGGCAGATCACTTGAGGTGAGGAGTTGGAGACCAGCC
TGGCCAACATAGTGAAACCCCGTCTCTACTAAAAATGCAAAAATTAGCCAGGCGTAGTGGTGGCGACCTGTAGTC
TCAGATACTTGGGAGGCTGAGGGTGGAGAATCGCTTGAACCTGGGAGGTGGAGATTGCAGTGAGTCAAGATCTCA
CCACTGAACCTCCAGCCTGGGCGACAGAGGGAGACTCTGTCTCAAAAAAAGAAAGTTACTTCCAAGACAGACTTT
TAACATGTAACCAGCACAAAGCAATGTGAGGGAGGAGTGATACATGACAATAAATGAGTCAGATGAGCAAGAAGG
CCCCAGAACCCATGCCCCAAGGCACAAAGAGGAGCTCAGGGTAGGCCCAAAGATTCGAATTCCTTAGATTACTAA
ATCACATGAGCGGACCTTGTCTGTGTCAGATAAGATTTTACCTGGAAATTCATGACCAATACATGTGCAAAAGAA
AATGATGGGTGAATTTACTGATTATTGACCTAATGGATGGCTTTTAAATGTTTTAATAAAAAGCAGAATAGA
TGTTTGTCTTTCTAGTGGTTATACCAAGCTATACTTCTGTTTTCACGTGTGAAAGTAACATGGGACATGCCTTT
CTTTCCGATCAGTTTATTTAAGCTATACAGCAAACTTTGGCATTATGTGGAGCATTCTCATTGTGGAATCT
GAATAAACCAATTACAAAATAAAAA

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FIGURE 617

MWWRVLSLLAWFPLQEASLTNHTETITVEEGQTLTLKCVTSLRKNSSLQWLTPSGFTIFLNEYPAKNSKYQLLH
HSANQLSITVPNVTLQDEGVYKCLHYSDSVSTKEVKVIVLATPFKPILEASVIRKQNGEEHVLMCSTMRSPPP
QITWLLGNSMEVSGGTLHEFETDGKKCNTTSTLIIHTYGKNSTVDCIIRHRGLQGRKLVAPFRFEDLVTDEETAS
DALERNLSLSSQDPQOPTSTVSVTEDSSTSEIDKEEKEQTTQDPDLTTEANPQYLGLARKKSGILLTLVSFLIFI
LFIIVQLFIMKLRKAHVIWKRENEVSEHTLESYRSRSNNEETSSEEKNGQSSHMPMRCMNYITKLYSEAKTKRKEN
VQHSKLEEKHIQVPESIV

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FIGURE 618

AGCCGCTGAGAGGCTCTGCGTGTGCGTGTGCGCGGGTGACGCCGTGTGTGTGCGAGTGTGTGTGTGTGTGTGCGC
GCGCGCGTGTGAGAGAGAGAAAGGGAGAGAGAGAGGGGGACTCTGTGTGAGGGAAAGAAAACAATTTCTCCTGCT
CTGCAGCTTCTGTTCAAGGATCAATGTGACTCTAAGAACAAATGGATGAATGAATATCCATATGAAGAGAAAAACA
ATAAGAATATCAACACCTTTGAGAACAGAATGTTAATGCTTGATGGGATGCCGGCAGTCAGAGTCAAAACAGAG
CTTTTGGAATCTGAACAAGGGTCTCCAAACGTCCACAACACTATCCCGATATGGAAGCCGTTCCCTGTTGCTAAAT
AATGTGAAAGGGGAGCCCCCGGAGGACTCGTTATCTGTAGATCACTTCCAAACACAACTGAGCCAGTGGAATTG
TCAATAAACAAAGCCAGGACGTCCCTACTGCCGTTTCATCTCCCACTGTTCCATGACAGCATCTGCCTCCTCA
CCTTCTTCAACTTCAACCTCTTCATCGTCTTCTAGTCGTCTAGCCTCATCCCCAACTGTTATCACATCAGTATCT
TCAGCGTCATCTTCGTCAACAGTATTAACCTCCAGGGCCCCCTTGTGGCCTCTGCATCTGGTGTGGAGGCCAGCAG
TTTTTGACATTATCCATCCCGTACCGCCTTCAAGTCCCATGAATTTACAGTCTAACAACTGAGTCATGTTTAC
CGCATCCCCGTGGTGGTACAGTCGGTGCCTGTTGTCTACACAGCTGTAAGGTCACCTGGAAATGTGAACAACACT
ATTGTCGTGCCGCTTTTGAGGATGGGAGAGGCCATGGCAAAGCACAAATGGACCCCGAGGCCTATCTCCAGA
CAAAGTAAAAGTGACAGTGATGATGATGACCTGCCAAATGTGACCTTAGATAGCGTTAATGAACTGGATCTACG
GCCCTTTCCATAGCCAGAGCAGTACAAGAGTAAGTATCACATTACAGGATGAATTAAGAATTGCCAAGGTGTTT
AATGGATAATGGAACTGCAGCATCTCCTGTCCCCAGCCATGTCATTCTAGCTGTGAAGTGGCAGCAATGTCAG
CAGCTTTTCATTAGCTGAATGCTCTTTGGGAGATTAGGGCAGAGAAATGGAGTGTTTAATGAGTTGGAAATTCA
TGCTTTGATGAGATATAAGACCTATGTGCATCTTTTCTAATACCTCTGCACCCTTCTCCTGAAGTCTGCAAAAA
AAAAAAATTGTTATTTTGAATGTCACTATTTGATTATCATCATCATTATTATTACACAAAGTCAAGGGAAATA
TGGCAAAGTATTGTTATCTTGTTTTGATAGGAAATTACAGAATAGCTTTTGGAAAGATTTAAATTTGGAAAATA
TATGTTTCATCTTTGAAAAGTAGTACTCATATGTTATTTTAAATGAATCTTTTCTGTCTCTTTTACCTGGACC
GCAGGGTTAGATTTAGCCCTCGTTTATTGAAAATAGCTGCTTTTCTATCAGTCAACCTTGTACCTAGAATTGAA
CCTAAATGATTGAAAAA

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FIGURE 619

MNIHMKRRTIKNINTFENRMLMLDGMPAVRVKTELLESEQGSPNVHNYPDMEAVPLLLNNVKGEPPEDSLSVDHF
QTQTEPVDLSINKARTSPTAVSSSPVSMASASSPSSTSTSSSSSSRLASSPTVITSVSSASSSSTVLTGGLVA
SASGVGGQQFLHIIHPVPPSSPMNLQSNKLSHVHRIPVVVQSVPVVYTAVRSPGNVNNTIVVPLLEDGRGHGKAQ
MDPRGLSPRQSKSDSDDDDLPNVTLDVNETGSTALSIARAVQEVHPSVSRVRGNRMNNQKFPSCSISPFSEST
RRQRRSESPDSRKRRIRHRCDFEGCNKVYTKSSHLKAHRRHTGKPYKCTWEGCTWKFARSDELTRHYRKHTGVK
PFKADCDSRFSRSDHLALHRRRHMLV

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FIGURE 620

GCCCCATCTCCTTGGGCTGCCCGTGCTTCGTGCTTTGGACTACCGCCCAGCAGTGTCTGCCCTCTGCCTGGGCC
TCGGTCCCTCCTGCACCTGCTGCCTGGATCCCCGGCCTGCCTGGGCCTGGGCCTTGGTTCTCCCCATGACACCAC
CTGAACGTCTCTTCCCTCCCAAGGGTGTGTGGCACCACCCTACACCTCCTCCTTCTGGGGCTGCTGCTGGTTCTGC
TGCCTGGGGCCCAGGGGCTCCCTGGTGTGGCCTCACACCTTCAGCTGCCCAGACTGCCCGTCAGCACCCCAAGA
TGCATCTTGCCACAGCACCCCTCAAACCTGCTGCTCACCTCATTGGAGACCCAGCAAGCAGAAGTCACTGCTCT
GGAGAGCAAACACGGACCGTGCTTCCTCCAGGATGGTTTCTCCTTGAGCAACAATTCTCTCCTGGTCCCCACCA
GTGGCATCTACTTCGTCTACTCCCAGGTGGTCTTCTCTGGGAAAGCCTACTCTCCCAAGGCCACCTCCTCCCCAC
TCTACCTGGCCCATGAGGTCCAGCTCTTCTCCTCCAGTACCCCTTCCATGTGCCTCTCCTCAGCTCCCAGAAGA
TGGTGTATCCAGGGCTGCAGGAACCCTGGCTGCACTCGATGTACCACGGGGCTGCGTTCCAGCTACCCAGGGAG
ACCAGCTATCCACCCACACAGATGGCATCCCCACCTAGTCTCAGCCCTAGTACTGTCTTCTTGGAGCCTTCG
CTCTGTAGAACTTGGAATAATCCAGAAAGAAAAATAATTGATTTCAAGACCTCTCCCCATTCTGCCTCCATTCT
TGACCATTTAGGGGTCGTACCCACCTCTCCTTTGGCCATTCCAACAGCTCAAGTCTTCCCTGATCAAGTCACCG
GAGCTTTCAAAGAAGGAATTCTAGGCATCCCAGGGGACCACACCTCCCTGAACCATCCCTGATGTCTGTCTGGCT
GAGGATTTCAAGCCTGCCTAGGAATTCCCAGCCCAAAGCTGTTGGTCTGTCCCACAGCTAGGTGGGGCCTAGAT
CCACACACAGAGGAAGAGCAGGCACATGGAGGAGCTTGGGGGATGACTAGAGGCAGGGAGGGGACTATTTATGAA
GGCAAAAAAATTAAATTATTTATTTATGGAGGATGGAGAGAGGGGAATAATAGAAGAACATCCAAGGAGAAACAG
AGACAGGCCCAAGAGATGAAGAGTGAGAGGGCATGCGCACAAAGGCTGACCAAGAGAGAAAGAAGTAGGCATGAGG
GATCACAGGGCCCCAGAAGGCAGGGAAAGGCTCTGAAAGCCAGCTGCCGACCAGAGCCCCACACGGAGGCATCTG
CACCTCGATGAAGCCCAATAAACCTCTTTTCTCTG

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FIGURE 621

MTPPERLFLPRVCGTTLHLLLLLGLLLVLLPGAQGLPGVGLTPSAAQTARQHFKMHLAHSTLKPAAHLIGDPSKQN
SLLWRANTDRAFLQDGFSLSNNSLLVPTSGIYFVYSQVVFSGKAYSPKATSSPLYLAHEVQLFSSQYPFHVPLLS
SQKMVYPGLQEPWLHSMYHGAAFQLTQGDQLSTHTDGIPHLVLSPTVFFGAFAL

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FIGURE 622

GTTACAGCGCCGGCGCCGGTGTGCGAGCCGGCGCAGAGTGAGGCAGGCAACCCGAGGTGCGGAGCGACCTGCGGAG
GCTGAGCCCCGCTTTCTCCCAGGGTTTCTTATCAGCCAGCCGCGCTGTCCCCGGGGGAGTAGGAGGCTCCTGAC
AGGCCGCGGCTGTCTGTGTCTCTTCTGAGTGTGAGAGGAACGGCCAGACCCCGCGGGCCGGAGCAGAACGCGGC
CAGGGCAGAAAGCGGCGGCAGGAGAAGCAGGCAGGGGGCCGGAGGACGCAGACCCGAGACCCGAGCGGAGGCGGA
CCGCGAGCCGGCCATGTCGGTGGTGGGGTTGGACGTGGGCTCGCAGAGCTGTACATCGCGGTAGCCCGGGCCGG
GGGCATCGAGACCATCGCCAATGAGTTGAGTCAGCGACCGGTGCACCCCGTCAGTCATATCATTTGGATCAAAAAATAG
AACAATCGGAGTTGCAGCCAAAAATCAGCAATCACTCATGCAACAATACGGTGTCTAATCTCAAAAGATTTC
TGGCCGAGCATTCAACGACCCCTTCATTCAAAAGGAGAAGGAAAACCTTGAGTTACGATTGGTTCCATTGAAAA
TGGTGGAGTTGGAATAAAGGTAATGTACATGGGTGAAGAACATCTATTTAGTGTGGAGCAGATAACAGCCATGTT
GTTGACTAAGCTGAAGGAACTGCTGAAAACAGCCTCAAGAAACAGTAACAGATTGTGTTATTTAGTCCCTC
CTTCTTTACAGATGCTGAGAGGCGATCTGTGTAGATGCTGCACAGATTGTTGGCCTAACTGTTAAGACTTAT
GAATGACATGACAGCTGTTGCTTTGAATTACGAATTTATAAGCAGGATCTCCCAAGCCTGGATGAGAAACCTCG
GATAGTGGTTTTTGTGATATGGGACATTGAGCTTTTCAAGTGTCTGCTTGTGCTTTTAAACAAGGAAAAATTGAA
GGTACTGGGAACAGCTTTTGTCTTTCTTAGGAGGAAAAAATCTCGATGAAAAGTTAGTGGAACATTTCTGTGC
AGAATTTAAACTAAGTACAAGTTGGATGCAAAATCCAAATACGAGCACTCCTACGTCTGTATCAGGAATGTGA
AAAAGTGAAGAACTAATGAGCTCTAACAGCAGACCTTCCACTGAATATCGAATGCTTTATGAATGATAAAGA
TGTTTTCCGGAAGATGAACAGGTACAATTTGAAGAACTCTGTCTGAACTTCTGCAAAAGATAGAAGTACCCCT
TTATTCAGTGTGGAACAACTCATCTCAAAGTAGAAGATGTGAGTGCAGTTGAGATTGTTGGAGGCGCTACACG
AATTCCAGCTGTGAAGGAAAGAAATTGCCAAATCTTTGGAAGATATTAGCACAACTCAATGCAGATGAAGC
AGTAGCCAGAGGATGTGCATTACAGTGTGCAATACTTTCCCGGCATTTAAAGTTAGAGAATTTCCGTCACAGA
TGCAGTTCCTTTTCCAATATCTCTGATCTGGAACCATGATTGAGAAGATACTGAAGGTGTTTATGAAGTCTTTAG
TCGAAACCATGTGCTCCTTTCTCCAAAGTTCTCACCTTTCTGAGAAGGGGGCCTTTTGTAGCTAGAAGCTTTCTA
TTCTGATCCCCAAGGAGTTCCATATCCAGAAGCAAAATAGGCCGCTTTGTAGTTCAGAATGTTTCTGCACAGAA
AGATGGAGAAAAATCTAGAGTAAAAGTCAAAGTGCAGTCAACACCCATGGCATTTCACCATCTCTACGGCATC
TATGGTGGAGAAAGTCCCACTGAGGAGAATGAAATGTCTTCTGAAGCTGACATGGAGTGTCTGAATCAGAGACC
ACCAGAAAACCCAGACACTGATGCAAAATGAAAAAAGTTGACCAGCCTCCAGAAGCTAAAAAGCCCAAAATAAA
GGTGGTGAATGTTGAGCTGCCTATTGAAGCCAACCTGGTCTGGCAGTTAGGGAAAGACCTTCTTAACATGTATAT
TGAGACAGAGGGTAAGATGATAATGCAAGATAAATTGGAAGAAAGAAAGGAATGATGCTAAAAATGCAGTTGAGGA
ATATGTGTATGAGTTCAGAGACAAGCTGTGTGGACCATATGAAAAATTTATATGTGAGCAGGATCATCAAAATTT
TTTGAGACTCCTCACAGAACTGAAGACTGGCTGTATGAAGAAGGAGAGGACCAAGCTAAACAAGCATATGTTGA
CAAGTTGGAAGAATTAATGAAAATTGGCACTCCAGTTAAAGTTCCGTTTCAGGAAGCTGAAGAAGGGCCAAAAAT
GTTTGAAGAACTAGGACAGAGGCTGCAGCATTATGCCAAGATAGCAGCTGACTTCAGAAATAAGGATGAGAAATA
CAACCATATTGATGAGTCTGAAATGAAAAAGTGGAGAAGTCTGTTAATGAAGTGAATGGAATGGAATAATGT
CATGAATGCTCAGGCTAAAAAGAGTCTTGATCAGGATCCAGTTGTACGTGCTCAGGAAATTAACAACAAATCAA
GGAATTGAACAACACATGTGAACCCGTTGTAACACAACCGAAACCAAAATTAATCACCCAACTGGAAAGAAC
TCCAAATGGCCCAATATTGATAAAAAGGAAGAAGATTAGAAGACAAAAACAATTTGGTGTCTGAACCTCCACA
TCAGAAATGGTGAATGTTACCCTAATGAGAAAAATTCGTTAATATGGACTTGGACTAGATAACCTTAAATTGGCC
TATTCCTTCAATTAATAAAATATTTTGGCATAGTATGTGACTCTACATAACATACTGAACTATTTATATTTT
TTTTTTAAGGATATTTAGAAATTTTGTGATTATATGGAAGAAAGAAAAAGCTTAAGTCTGTAGTCTTTATGAT
CCTAAAAGGGAAAAATTGCCTTGGTAACTTTCAGATTCTGTGGAATTGTGAATTCATACTAAGCTTTCTGTGCAG
TCTCACCATTGTCATCACTGAGGATGAACTGACTTTTGTCTTTTGGAGAAAAAAGCTGACTGTTGTTCAAGA
GGGCTGTGATTAATACTTTAAGCATTGTTCTGCAAGGTAGTTTCTTGCAATTTGCTCTCCATTGAGCATG
TGTGTGGGTGTGGATGTTATAAACAAGACTAAGTCTGACTTCATAAGGGCTTTCTAAACCAATTTCTGTCCAAG
AGAAATGACTTTTGTCTTGATATTAATAATCAATGAGTAAACAAAAGCTAGTCAATGTGTTAGCAGCATG
CAGAACAAAACTTTAACTTTCTCTCACTATACAGTATATTGTCAATGTGAAAGTGTGGAATGGAAGAAATG
TCGATCCTGTTGTAAGTATTGTGAACACTTTTATGAGCTTTAAATAAAGTTCATCTTATGGTGTCTATTCT

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FIGURE 623

MSVVGLDVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGSKNRTIGVAAKNQQITHANNTVSNFKRFHGRAF
NDPFIQKEKENLSYDLVPLKNGGVGIKVMYMGEHLFSVEQITAMLLTKLKETAENSLKKPVTD CVISVPSFFTD
AERRSVLDAAQIVGLNCLRLMNDMTAVALNYGIYKQDLP SLDEKPRIVVFVDMGHS AFQVSACAFNKGKLVLT
AFDPFLGGKNFDEKLVEHFCAEFKTKYKLDASKIRALLRLYQCEKLLKLMSSNSTDLPLNIECFMNDKDVSGK
MNRSQFEELCAELLQKIEVPLYSLLEQTHLKVEDVSAVEIVGGATRIPAVKERIAKFFGKDISTTLNADEAVARG
CALQCAILSPAFAKREFSVTD AVFPFISLIWNHDS EDTGVHEVFSRNHAAPFSKVLTLFRRGPFLEAFYSDPQ
GVPYPEAKIGRFVQNVSAQKDGEKSRVKVKVRVNTHGIFTISTASMVEKVPTEENEMSSEADMECLNQRPENP
DTDANEKKVDQPPEAKPKIKVVNVLP IEANLVWQLGKDLLNMYIETEGKMIMQDKLEKERNDAKNAVEEYVYE
FRDKLCGPYEKFICEQDHQNFRLRLTETEDWLYEEGEDQAKQAYVDKLEELMKIGTPVKVRFQEAERPKMFEEL
GQRLQHYAKIAADFRNKDEKYNHIDSEMKKVEKSVNEVMEWMNNVMNAQAKKSLDQDPVVRAQEIKTKIKELNN
TCEPVVTQPKPKIESPKLERTPNGPNIDKKEEDLEDKNNFGAEPHQNGECYPNEKNSVNMDLD

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FIGURE 624A

TGCAGAGAACAGAGAAAGGACATCTGCGAGGAAAGTTCCCTGATGGCTGTCAACAAAGTGCCACGTCTCTATGGC
TGTGTACGCTGAGCACACGATTTTATCGCGCCTATCATATCTTGGTGATATAACGCACCTCACCTCGGTCAACCC
TTGCTCCGTCTTATGAGACAGGCTTTATTATCCGCATTTTATATGAGGGGAATCTGACGGTGGAGAGAGAATTAT
CTTGCTCAAGGCGACACAGCAGAGCCACAGGTGGCAGAATCCCACCCGAGCCCGCTTCGACCCGCGGGGTGGAA
ACCACGGGCGCCCGCCCGGCTGCGCTTCCAGAGCTGAAGTGAAGCGAGTCTCTCCGCCCTGCGGCCACCGCC
CAGCCCCGACCCCGCCCGGCGGATCCTCACTCGCGCCAGCTCCCCGCGCCACCCCGGAGTTGGTGGCGCA
GAGGCGGGAGGCGGAGGCGGGAGGGCGGGCGTGGCACCAGGAAACGCCGAGCGCCGCGAGAGCGCGGAGAGC
GCGACACGTGCGGCCAGAGCACCGGGGCCACCCGGTCCCCGAGGCCCGGGACCGCGCCCGCTGGCAGGCGACA
CGTGAAGAATACGGAGTTCTATACCAGAGTTGATTGTTGATGACACATACTTTTAGAGGATGCTCATTGGCATT
TATGTTTATAATCAGTGGCTGTTGATTAAAGCAAAATAGATGCGTGCAAGAGAGGCGATGTGACTGTGAAGCC
TTCCCATGTAATTTTACTTGGATCCACTGTCAATATTACATGCTCTTTGAAGCCAGACAAGGCTGCTTCACTA
TTCCAGACGTAACAAGTTAATCCTGTACAAGTTTGACAGAAGAATCAATTTTACCATGGCCACTCCCTCAATTC
TCAAGTCACAGGTCTTCCCTTGGTACAACCTTGTGTCTGCAAACTGGCCTGTATCAATAGTGATGAAATTC
AATATGTGGAGCAGAGATCTTCTGTTGGTGTGTGCTCCAGAACAGCCTCAAAATTTATCTGCATACAGAGGGAGA
ACAGGGGACTGTGGCTGCACCTGGGAAAGAGGACGAGACACCCACTTATACACTGAGTATACTCTACAGCTAAG
TGGACCAAAAATTTAACCTGGCAGAAGCAATGTAAAGACATTTATGTGACTATTTGGACTTTGGAATCAACCT
CACCCCTGAATCACCTGAATCCAATTCACAGCCAAGGTTACTGTGTCAATAGTCTTGAAGCTCCTCTTCACT
TCCATCCACATTACATTCTTGGACATAGTGAGGCTCTTCTCCGTGGGACATTAGAATCAAAATTTCAAAGGC
TTCCGTGAGCAGATGTACCCTTTATTGGAGAGATGAGGGACTGGTACTGCTTAATCGACTCAGATATCGGCCAG
TAACAGCAGGCTCTGGAATATGGTTAATGTTACAAAGGCCAAAGGAAGACATGATTGCTGGATCTGAAACCATT
TACAGAATATGAATTCAGATTTCCCTCTAAGCTACATCTTTATAAGGGAAGTTGGAGTGATTGGAGTGAATCATT
GAGAGCACAAACACCAGAAGAAGAGCCTACTGGGATGTTAGATGTCTGGTACATGAAACGGCACATTGACTACAG
TAGACAACAGATTTCTCTTTTCTGGAAGAATCTGAGTGTCTCAGAGGCAAGAGGAAAAATTTCTCCACTATCAGGT
GACCTTGAGGAGCTGACAGGAGGGAAAGCCATGACACAGAACATCACAGGACACACCTCCTGGACCACAGTCAT
TCCTAGAACCGAAATTTGGGCTGTGGCTGTGTCTGCAGCAAATTCAAAAGGCAGTTCTCTGCCCACTCGTATTAA
CATAATGAACCTGTGTGAGGCAGGGTTGCTGGCTCCTCGCCAGGTCTCTGCAAACTCAGAGGGCATGGACAACAT
TCTGGTGACTTGGCAGCCTCCCAGGAAAGATCCCTCTGCTGTTTCCAGGAGTACGTGGTGAATGGAGAGAGCTCCA
TCCAGGGGGTGACACACAGGTCCCTCTAACTGGCTACGGAGTCGACCCCTACAATGTGTCTGCTCTGATTTAGA
GAACATAAAATCCTACATCTGTTATGAAATCCGTGTGTATGCACTCTCAGGGGATCAAGGAGGATGCAGCTCCAT
CCTGGGTAACTCTAAGCACAAAGCACCCTGAGTGGCCCCACATTAATGCCATCACAGAGGAAAAGGGGAGCAT
TTTAATTTTATGGAACAGCATTCCAGTCCAGGAGCAAATGGGCTGCCTCCTCCATTATAGGATATACTGGAAGGA
ACGGGACTCCAATCCCAGCCTCAGCTCTGTGAAATTCCTACAGAGTCTCCCAAAATTCACATCCAATAAACAG
CCTGCAGCCCCGAGTGACATATGTCTGTGGATGACAGCTCTGACAGCTGCTGGTGAAAGTTCCACGGAAATGA
GAGGGAATTTTGTCTGCAAGGTAAAGCCAATGGATGGCGTTTGTGGCACCAGCAATTTGCATTGCTATCATCAT
GGTGGGCATTTTCTCAACGCATTACTTCCAGCAAAGGTGTTTGTCTCCTAGCAGCCCTCAGACCTCAGTGGTG
TAGCAGAGAAATTCAGATCCAGCAAATAGCACTTGCCTAAGAAATATCCATTGCGAGAGGAGAAGACACAGCT
GCCCTTGGACAGGCTCCTGATAGACTGGCCACGCTGAAGATCCTGAACCGCTGGTCATCAGTGAAGTCTTCA
TCAAGTGACCCCAAGTTTTCAGACATCCCCCTGCTCCAATGGCCACAAAGGAAAAAGGAATCCAAGGTATCA
GGCCTCTGAGAAAGACATGATGCACAGTGCCTCAAGCCCACCCTCCAAGAGCTCTCCAAGCTGAGAGCAGACA
ACTGGTGGATCTGTACAAGGTGCTGGAGAGCAGGGGCTCCGACCCAAAGCCAGAAAACCCAGCCTGTCCCTGGAC
GGTGTCTCCAGCAGGTGACCTTCCACCCATGATGGCTACTTACCCTCCAACATAGATGACCTCCCTCACATGA
GGCACCTCTCGCTGACTCTCTGGAAGAACTGGAGCCTCAGCACATCTCCCTTTCTGTTTCCCTCAAGTTCTCT
TCACCCTCAGCTTCTCTGTGGTGATAAGCTGACTCTGGATCAGTTAAAGATGAGGTGTGACTCCCTCATGCT
CTGAGTGGTGAGGCTTCAAGCCTTAAAGTCAGTGTGCCCTCAACCAGCACAGCCTGCCCAATTTCCCCAGCCCC
TGCTCCAGCAGCTGTATCTCTGGGTGCCACCATCGGTCTGGCTGCAGCTAGAGGACAGGCAAGCCAGCTCTGGG
GGAGTCTTAGGAACTGGGAGTTGGTCTTCACTCAGATGCCTCATCTTGCCTTTCCAGGGCCTTAAATTTACATC
CTTCACTGTGTGGACCTAGAGACTCCAATTTGAATTCCTAGTAATTTCTTGGTATGCTGGCCAGAAAGGGAAT
GAGGAGGAGAGTAGAAACCACAGCTCTTAGTAGTAATGGCATAACAGTCTAGAGGACCATTATGCAATGACTATT

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FIGURE 624B

TCTAAAGCACCTGCTACACAGCAGGCTGTACACAGCAGATCAGTACTGTTCAACAGAACTTCCTGAGATGATGGA
AATGTTCTACCTCTGCACTCACTGTCCAGTACATTAGACACTAGGCACATTGGCTGTTAATCACTTGGAAATGTGT
TTAGCTTGACTGAGGAATTAAATTTTGATTGTAAATTTAAATCGCCACACATGGCTAGTGGCTACTGTATTGGAG
TGCACAGCTCTAGATGGCTCCTAGATTATTGAGAGCCTCCAAAACAAATCAACCTAGTTCTATAGATGAAGACAT
AAAAGACACTGGTAAACACCAATGTAAAAGGGCCCCAAGGTGGTCATGACTGGTCTCATTTCAGAAAGTCTAAG
AATGTACCTTTTTCTGGCCGGGCGTGGTAGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCTGA

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FIGURE 625

MAHTFRGCSLAFMFIITWLLIKAKIDACKRGDVTVKPSHVILLGSTVNITCSLKPRQGC FHYSRNKLILYKFDR
RINFHHGHSLSNSQVTGLPLGTTLFVCKLACINSDEIQICGAEIFVGVAPEQPQNLS CIQKGEQGT VACTW ERGRD
THLYTEYTLQLSGPKNL TWQKQCKDIYCDYLD FGINLTPE SPESNFTAKVTAVNSLGSSSSLPSTFTFLDIVRPL
PPWDIRIKFQKASVSRCTLYWRDEGLVLLNRLRYRPSNSRLWNMVNVT KAKGRHDLLDLKPFTEYEFQISSKLHL
YKGSWSDWSESLRAQTPEEEPTGMLDVWYMKRHIDYSRQQISLFWKNLSVSEARGKILHYQVTLQELTG GKAMTQ
NITGHTSWTTVIPRTGNWAVAVSAANSKGSSLPTRINIMNLCEAGLLAPRQVSANSEGMDN ILVTWQPPRKDPSA
VQEYVVEWRELHPGGDTQVPLNWLRSPYNVSALISENIKSYICYEIRVYALSGDQGGCSSILGNSKHKAPLSGP
HINAITEEKGSILISWNSIPVQEQMGCLLHYRIYWKERDSNSQPOLCEIPYRVSONSHPINS LQPRVTYVLWMTA
LTAAGESSHGNEREFCLQGKANWMAFVAPSICIAIMVGIFSTHYFQQKFVLLAALRPQWCSREIPDPANSTCA
KKYPIAEEKTQLPLDRLLIDWPTPEDPEPLVISEVLHQVTPVFRHPPCSNWPQREKGIQGHQASEKMMHSASSP
PPPRALQAESRQLVDLYKVLESRGSDPKPENPACPWTVLPAGDLPTHDGYLPSNIDDLPSHEAPLADSLEELEPQ
HISLSVFPSSSLHPLTFSCGDKLTLDQLKMRCDSLML

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FIGURE 626

CTCGAGGCCAAGAATTTCGGCACGAGGGAACCTGTAAACGCTCTCGGAATTATGCGCGCGGTGGATATCCGAGACA
ATCTGCTGGGAATTTCTTGGGTGACAGCTCTTGGATCCCTATTTTGAACAGTGGTAGTGTCTGGATTACTTTT
CAGAAAGAAGTAATCCTTTTTATGACAGAACATGTAATAATGAAGTGGTCAAAATGCAGAGGCTAACATTAGAAC
ACTTGAATCAGATGGTTGGAATCGAGTACATCCTTTTGCATGCTCAAGAGCCCATTCTTTTCATCATTCGGAAGC
AACAGCGGCAGTCCCCTGCCCAGTTATCCCCTAGCTGATTACTATATCATTGCTGGAGTGATCTATCAGGCAC
CAGACTTGGGATCAGTTATAAACTCTAGAGTGCTTACTGCAGTGCATGGTATTTCAGTCAGCTTTTGATGAAGCTA
TGTCACTGTGCGATATCATCCTTCCAAAGGGTATTGGTGGCACTTCAAAGATCATGAAGAGCAAGGTAAGTAGA
ACATCCATACCCTCCTAAAACACTTTTTGATCCTCTGAGAATGAAGCTGTTTTCTTAGGAAAATGGCTGTTGAT
CTTTTCTAAGTGTGTTTCACTTTTTCATGGGATGATGGCTTTGTTGCAGCTGAGATTCATGTAACCTAGAGTGGTA
ATAATAGTTTACATAGGAACAGATGCAAGTTCACCTCTGTTAGTTAACTGGTAGTCTTTGTTAAGGTGATTCAAG
GTTTTAAATATTTGGGGCCAGGTGTGGTGGCTCACTCCTGTAATCCCGGCACTTTGGAATGCCAAGGCAGGTGG
ATCACCTGAGCCTAGGAGTTCAAGATCAGCCTGGGCAACATAGTGAACCTGGTCTCTGC

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FIGURE 627

MAAVDIRDNLLGISWVDSSWIPILNSGSVLDYFSERSNPFYDRTCNEVVKMQRLLTLEHLNQMGIEYILLHAQE
PILFIIRKQQRQSPAQVIPLADYIIAGVIYQAPDLGSVINSRVLTAVHGIQSAFDEAMSYCRYHPSKGYWWHFK
DHEEQGK

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FIGURE 628

CTCATATTTACACAGATGAGTTGGCGAGGAAGATCGACCTATTATTGGTCTAGGCCAATAATAGGTCGATCTTC
CTCGCCAACTCATATTTACACAGATGAATCTCAGTAGAGGAAAATCGACCTATTATTGGCCTAGACCAAGGCGC
TATGTACAGCCTCCTGAAGTGATTGGGCCTATGCGGCCCCGAGCAGTTCAGTGATGAAGTGGAAACCAGCAACACCT
GAAGAAGGGGAACCAGCAACTCAACGTCAGGATCCTGCAGCTGCTCAGGAGGGAGAGGATGAGGGAGCATCTGCA
GGTCAAGGGCCGAAGCCTGAAGCTGATAGCCAGGAACAGGGTCACCCACAGACTGGGTGTGAGTGTGAAGATGGT
CCTGATGGGCAGGAGATGGACCCGCCAAATCCAGAGGAGGTGAAAACGCCTGAAGAAGGTGAAAAGCAATCACAG
TGTAAAAGAAGGCACGTTGAAATGATGCAGGCTGCTCCTATGTTGGAAATTGTTTATTAAATTTCTCCAATA
AAGCTTTACAGCCTTCTGCAAAGAAAA

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FIGURE 629

MNLSRGKSTYYWPRPRRYVQPPEVIGPMRPEQFSDEVEPATPEEGEPATQRQDPAAQEGEDEGASAGQGPKPEA
DSQEQGHPQTGCECEDGPDGQEMDPPNPPEEVKTPEEGEKQSQC

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FIGURE 630

CACACCCTGACAAGCTGCCAGGCAGGTTCTTCTCTCACATACTGACCCACGGCTCCACCCTCTCTCCCCTGG
AAAGGACACCATGAGCACTGAAAGCATGATCCGGGACGTGGAGCTGGCCGAGGAGGCGCTCCCCAAGAAGACAGG
GGGGCCCCAGGGCTCCAGGCGGTGCTTGTTCTCTCAGCCTCTTCTCCTTCTGATCGTGCGAGGCGCCACCACGCT
CTTCTGCCTGCTGCACTTTGGAGTGATCGGCCCCCAGAGGGAAGAGTCCCCAGGGACCTCTCTCTAATCAGCCC
TCTGGCCCAGGCAGTCAGATCATCTTCTCGAACCCCCGAGTGACAAGCCTGTAGCCCATGTTGTAGCAAACCTCA
AGCTGAGGGGCGAGCTCCAGTGGCTGAACCGCCGGGCCAATGCCCTCCTGGCCAATGGCGTGAGAGATAA
CCAGCTGGTGGTGCCATCAGAGGGCCTGTACCTCATCTACTCCAGGTCCTCTTCAAGGGCCAAGGCTGCCCCTC
CACCCATGTGCTCCTCACCCACACCATCAGCCGCATCGCCGCTCCTACCAGACCAAGGTCAACCTCCTCTCTGC
CATCAAGAGCCCCCTGCCAGAGGGAGACCCAGAGGGGGCTGAGGCCAAGCCCTGGTATGAGCCCATCTATCTGGG
AGGGGTCTTCCAGCTGGAGAAGGGTGACCGACTCAGCGCTGAGATCAATCGGCCCGACTATCTCGACTTTGCCGA
GTCTGGGCAGGTCTACTTTGGGATCATTGCCCTGTGAGGAGGACGAACATCCAACCTTCCCAAACGCCTCCCCTG
CCCCAATCCCTTTATTACCCCTCCTTCAGACACCCTCAACCTCTTCTGGCTCAAAAAGAGAATTGGGGGCTTAG
GGTCGGAACCCAAAGCTTAGAACTTTAAGCAACAAGACCACCCTTCGAAACCTGGGATTAGGAATGTGTGGCCT
GCACAGTGAAGTGCTGGCAACCACTAAGAATTCAAATGGGGCCTCCAGAACTCACTGGGGCCTACAGCTTTGAT
CCCTGACATCTGGAATCTGGAGACCAGGGAGCCTTTGGTTCTGGCCAGAATGCTGCAGGACTTGAGAAGACCTCA
CCTAGAAATTGACACAAGTGACCTTAGGCCTTCCTCTCTCCAGATGTTCCAGACTTCCTTGAGACACGGAGCC
CAGCCCTCCCCATGGAGCCAGCTCCCTCTATTTATGTTTGCACTGTGATTATTTATTATTTATTTATTTAT
TTATTTACAGATGAATGTATTTATTTGGGAGACCGGGGTATCCTGGGGGACCCAATGTAGGAGCTGCCTTGGCTC
AGACATGTTTTCCGTGAAAACGGAGGCTGAACAATAGGCTGTTCCCATGTAGCCCCCTGGCCTCTGTGCCTTCTT
TTGATTATGTTTTTAAATATTATCTGATTAAGTTGTCTAAACAATGCTGATTGTTGGTGACCAACTGTCACAT
TGCTGAGGCCTCTGCTCCCCAGGGAGTTGTGTCTGTAATCGGCCTACTATTAGTGCGGAGAAATAAGGTTGCT
TAGGAAAGAA

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FIGURE 631

MSTESMIRDVELAEEALPKKTGGPQGSRRCLFSLFSFLIVAGATTLCLLHFGVIGPQREESPRDLSLISPLAQ
AVRSSSRTPSDKPVAVHVVANPQAEGLQWLNRRANALLANGVELRDNQLVVPSEGLYLIYSQVLFGQGCPSTHV
LLTHTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEP IYLGGVFQLEKGDRLSAEINRPDYLDFAESGQ
VYFGIIAL

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FIGURE 632A

CATGGCGGCGACTGCGGCAAAGCGAGAGCCTCGGAGACGCCGCTGCCGCCAGCACAGCCGGAGATCTGAGCCGAC
ACTGGGGGCGAGTCCGCGAGCCCCGCACTCTCTCGATGAGTCGGAGAAGTCCCGTTGTATCAGAGTAAGATGGACG
GTAGCTTTGATTGTGATTGTGGTGAGCTGGAGCCACCTGATCACTAACAAAAGACATCTTCTGTAAACCAACAGC
CGCCAGGCTTCTGTGAAATAAATATATAGCAACAAAGGAAAAAAGAAGCAAAACGGAAATAGTGCTTACCAG
CACCTTAGAATGATGCTGCTCAGGACCAGTCCAACACTGAATGTATCTGCACTGTGAGGAGAATGTTTCATAGAAG
CCTGTTGTGTGCATATTTATTCACTTTTTGTAAATGTTAAATCGTTTAGCACGGTAATCTGAGTGCACAGTATG
TCATTTCAATCCGTTTGAGTTTCTGTTTTCTGTTAAATGTCTGCAGAGTTGCTGCCCTTTCTTGAACATATGAGT
ACTGCAATCTTTTTAATCTCAATATGAATAGAGCTTTTTGAGCTTTAAATCTAAGGGGAACCTCGACAGGCCCTGT
TTGGCATATGCAATGAACATCAAGAAACCCTTGTCTGTGGAAGCATAATTATTTTTCTTCCCTTTTTGAAAG
ATCTTTCTTTTGATGCCAGTTTTCTTCTTGTTTACACAAGTTCAATTTGAAAGGAAAAGGCAATAGTAAGGGT
TTCAAAATGGCAGAGAAATTTGAAAGTCTCATGAACAATTCATGGTTTTGATCTGGGTTCTAGGTATATGGACTTA
AAACCATTGGGTTGTGGAGGCAATGGCTTGGTTTTTCTGCTGTAGACAATGACTGTGACAAAAGAGTAGCCATC
AAGAAAATGTCTTACTGATCCCCAGAGTGTCAAACATGCTCTACGTGAAATCAAAATATTAGAAGACTTGAC
CATGATAACATTGTGAAAGTGTGAGATTCTTGGTCCCAGTGGAAGCCAATTAACAGACGATGTGGGCTCTCTT
ACGGAAGTGAACAGTGTGTTACATTGTTTACGAGTACATGGAGACAGACTTGGCTAATGTGCTGGAGCAGGGCCCT
TTACTGGAAGAGCATGCCAGGCTTTTCATGTATCAGCTGCTACGGGGGCTCAAGTATATTCACTCTGCAAAATGTA
CTGCACAGAGATCTCAAACCAGCTAATCTTTTCAATTAACGGAAGACTTGGTGTGAAGATAGGTGACTTTGGT
CTTGACGGATCATGGATCCTCATTATTCCATAAGGGTCACTTTCTGAAGGATTGGTTACTAAATGGTACAGA
TCTCCAGCTCTTTACTTTCTCTAATAATTATACTAAAGCCATTGACATGTGGGCTGCAGGCTGCATCTTTGCT
GAAATGCTGACTGGTAAAACCTTTTTGTCAGGTGCACATGAACCTGAACAGATGCAGCTGATTTTAGAATCTATT
CCTGTTGTACATGAGGAAGATCGTCAGGAGCTTCTCAGCGTAATCCAGTTTACATTAGAAATGACATGACTGAG
CCACACAAACCTTTAACTCAGCTGCTTCCAGGAATTAGTCGAGAAGCACTGGATTTCTGGAACAAATTTTGACA
TTAGCCCCATGGATCGGTTAACAGCAGAAGAAGCACTCTCCCATCCTTACATGAGCATATATTCTTTTCCAATG
GATGAGCCAATTTCAAGCCATCCTTTTCAATATGAAGATGAAGTTGATGATATTTTGCTTATGGATGAAACTCAC
AGTCACATTTATAACTGGGAAAGGTATCATGATTGTGTCAGTTTTTCAGAGCATGATTGGCCTGTACATAACAACCTT
GATATTGATGAAGTTTCAAGCTTGATCCAAGAGCTCTGTCCGATGTCAGTATGAAGAAGAAGTACAAGTTGATCCC
CGAAAATATTTGGATGGAGATCGGGAAAAGTATCTGGAGGATCCTGCTTTTGATACCAATTACTCTACTGAGCCT
TGTTGGCAATACCTCAGATCATCATGAAAACAAATATTGTGATCTGGAGTGTAGCCATACCTTGAACACAAAACG
AGGTCATCATCATATTTAGATACTTAGTTTGGAGAGAGAGTGAAGTTAACCATTACTATGAACCCAAGCTTATT
ATAGATCTTTCCAATTGGAAGAACAAGCAAGAAAATCTGATAAGAAAGGCAAAATCAAAATGTGAAAGGAAT
GGATTGGTTAAAGCCCAGATAGCGCTAGAGGAAGCATCACAGCAACTGGCTGGAAAAGAAAGGAAAAGAAATCAG
GGATTGATTTTGAATTCCTTTATTGTCAGGAACATTTCAGCTTAGTTCCCAGCATGAGCCTACTGATGTTGTTGAT
AAATTAATGACTTGAATAGCTCAGTGTCCCAACTAGAATTGAAAAGTTTGATATCAAAGTCAGTAAGCCAAGAA
AAACAGGAAAAGGAATGGCAAATCTGGCTCAATTAGAAGCCTTGTAACAGTCTTCTTGGGACAGCCAGTTTGTG
AGTGGTGGGGAGGACTGTTTTTTCATAAATCAGTTTTGTGAGGTAAGGAAGGATGAACAAGTTGAGAAGGAAAAC
ACTTACACTAGTTACTTGGACAAGTTCTTTAGCAGGAAAGAAGATACTGAAATGCTAGAACTGAGCCAGTAGAG
GATGGGAAGCTTGGGGAGAGAGGACATGAGGAAGGATTTCTGAACAACAGTGGGGAGTTCTCTTTAACAAGCAG
CTCAGTCCATAGGCATCCCACAGTTTCACAGTCCAGTTGGGTCACCACTTAAGTCAATACAGGCCACATTAACA
CCTTCTGCTATGAAATCTTCCCCTCAAATTCCTCATCAAACATACAGCAGCATTCTGAAACATCTGAACATAAAC
ACTCAGCAGACATTTATCTTTGTATTCTTCATGAAATGTGTTTTGCTTTTTTTTATTACTAGTGTTTAAGTCATT
TTTTACTTGAATCAGATGGTGTCAATTTAGTAAGGATTTTATGAGTTCTTGTTTTTTAAATCCAGACTTTCTTTT
TCTACATGTGAGATAGTTTTCAATTTAACTGGCATGTCAATTTGCACACAAAATAAAGACTAGAGCAAAATAATG
CAACGCAGGAGGAGAAAAGAAATGCACTAAGACAAGAACATTCTCTCATAGAACATTGATCTGTTTTTACAGGAAA
CAAACCTTGCTTGAATTTACACAGTGAGACTGTACATAATTGCATGAAAATAGCTATTTTTTCTAAGACAT
TTTTCAATCATGAATATTTTCAAGTTTTCTACTGTACACATTTCTTAAAACACATGATACCAGCAGCAACTGA
AAATGAATGCCGAATTTGGTACACATGTGTTATCTACCTCAAGGTAACAAGAGTATGTGGCAAAACATATACCAC
CCATAGTGCTTCACAAAATGCATTTCTATTTAGCCAGCGTTTATTGTAGTAAACTATTCTTAATAAACTCACTC
ACTGTTTATAAATGTTCTGGTATGCATTTCTTATAGTGAAGTGTTAATACATCACATCTTATTTATTTTAGCAAA

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FIGURE 632B

TCAGTATATTTCTGTATTTAATTATAAAAAATTAACCTAGTTTTTAAATTTATTTGCAAATATACTTTTTCCA
TTTGGCACTATGGTTTGTTCCTACCTAGCTGCATCTATAATGTCAGCTTATCCTAAGGCTGTCCACGTACTTAA
TTTACTTAAGTGTTCAATTTAAGTAACGTGCTCACTGTGTATAGGAATTTGTATTTGGAGGTGCTTGATCTATC
TACAAAGAAAAATTAATTAGGAATTACTTTATTATAAAATGCTCCTAGAAAGTCTTAATTGTGTTTATTTTTTAA
AAAACAAATGTTAGACTTGTTGTCATGGAAGTAATTAAGGTACATCATTATTGTAGTTTGAAAGTGTACATGAT
AAGACATTTTGTCTTTTACTGTATGTTTTTACTGAATGATCTATTCCCCATCCCAAGGCAAGCATGAATAAAATTA
GGTTAAACGTAGCATGTGGCATCGCAGTCTCTTAGAATTTGTTTCATCTATTTTATTTTATTGAATACTGTCTGT
ATCTTTGGTTATCCTGTTTGAAGAAAAGGACAAATAAAACATGGCCAGCAATACAAAAA

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FIGURE 633

MAEFESIMNIHGFDLGSRYMDLKPLGCGGNGLVFSAVDNDCDKRVAIKKIVLTDPQSVKHALREIKIIRRLDHD
NIVKVFEILGPSGSQLTDDVGSLTELSVYIVQEYMETDLANVLEQGPLEEHARLFMYQLLRGLKYIHSANVLH
RDLKPANLFINTEDLVKIGDFGLARIMDPHYSHKGHLSEGLVTKWYRSPRLLSPNNYTKAIDMWAAGCIFAEM
LTGKTLFAGAHELEQMQLILESIPVVHEEDRQELLSVIPVYIRNDMTEPHKPLTQLLPGISREALDFLEQILTFS
PMDRLTAEELSHPYMSIYSFPMDEPISSHPPHIEDEVDDILLMDETHSHIYNWERYHDCQFSEHDWPFVHNNFDI
DEVQLDPRALSDVTDEEEVQVDPKYLGDREKYLEDPAFDTNYSTEPWCWQYSDHHENKYCDLECSHTCNYKTRS
SSYLDNLVWRESEVNHYEPKLIIDLSNWKEQSKEKSDKKGKSKCERNGLVKAQIALEEASQQLAGKEREKNQGF
DFDSFIAGTIQLSSQHEPTDVVDKLNLDLSSVSQLELKSLSKSVSQEKQEKGMANLAQLEALYQSSWDSQFVSG
GEDCFFINQFCEVRKDEQVEKENTYTSYLDKFFSRKEDTEMLETEPVEDGKLGERGHEEGFLNNSGEFLFNKQLE
SIGIPQFHSPVGSPLKSIQATLTPSAMKSSPQIPHQTYSSILKHLN

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FIGURE 634

GGCCTTGGGGCTTTGTGAGATAGCTAGGGTCGACTTGTGTGGATTCTAGTAGAACGGAGCTGACCCTATCCGAAC
AGGCCCCCTGCCTGCTTGGATAGAGGCCTCCGAACAGGAGTAAAGAATGGCTGTTGAACATCCACAAGGCACCTGC
AAGACTATGAATCAAAGTTGAGACCAAGAAATTATTTCTGAAAAAGGATATGGAAAAACCTTACAAAACACAGCAT
TGAGTGTTCAAGTTTCAGAGGTGATTGGGAATGTAAAAACCAGTTTGAGAGAAAACAGGGATCTCAGGAAGGACA
TTTCAGTGAAATGATAATTTACTCCTGAAGACATGCCCCACTTTCAGTATCCAGCATCAGAGAATTCATACTGATGA
GAAACTCCTTGAATGTAAGGAATGTGGGAAGGATTTTAGTTTTGTATCAGTCCTTGTTTCGACATCAGCGAATTCA
TACTGGTGAGAAAACCTTATGAATGCAAAGAATGTGGCAAGGCCTTTGGTAGTGGTGCAAACCTTGCTTACCATCA
AAGAATTCATACTGGTGAGAAGCCTTTTGAATGTAAAGAATGTGGGAAGGCCTTTGGTAGTGGCTCAAACCTTAC
TCACCATCAGAGAATTCATACTGGTGAGAAAACCTTATGAGTGTAAAGGAATGTGGGAAAGCCTTTAGTTTTGGATC
AGGCCTTTATACGACATCAGATCATTACAGTGGAGAGAAGCCTTATGAGTGTAAAGGAATGTGGGAAGTCCTTTAG
TTTTGAATCAGCCCTTATTCGGCATCACAGAATTCACACAGGTGAGAAAACCTTATGAATGTATAGATTGTGGTAA
AGCCTTTGGCAGTGGTTCAAACCTTACTCAACATCGGCGGATTCTACTGGTGAGAAAACCTTATGAATGCAAAGC
ATGTGGAATGGCCTTTAGCAGTGGTTCCGGCTTCTACTCGGCATCAGAGAATTCATACCGGTGAGAAACCATATAT
ATGTAATGAATGTGGTAAGGCCTTTAGTTTTGGATCAGCCCTTACTCGACATCAAAGAATTCATACTGGTGAGAA
ACCTTATGTATGTAAGGAATGTGGGAAGGCCTTTAATAGTGGCTCAGATCTCACTCAGCATCAGAGAATTCACAC
TGGTGAGAAAACCTTATGAGTGTAAAGGAGTGTGAGAAAAGCCTTTAGAAGTGGTTCAAACCTTATTCAGCATCAAAG
AATGCATACTGGAGAGAAAACCTTATGAATGTAAAGGAATGTGGGAAGACCTTTAGTAGTGGTTTCAGACCTTACTCA
ACATCACAGAATTCATACTGGTGAGAAAACCTTATGAATGTAAAGGAATGTGGGAAGGCCTTTGGTAGTGGCTCAAA
ACTTATCCAACACCAGCTAATCCATACTGGTGAAAGACCTTATGAATGTAAAGAATGTGGAAAGTCCTTTAGTAG
TGGTTTCAGCTCTTAATCGGCACCAGAGAATACACACTGGTGAGAAAACCTTATGAATGTAAAGGAGTGTGGGAAGGC
TTTTTATAGTGGCTCAAGCCTTACTCAGCATCAGAGAATTCATACAGGTGAGAAAACCTTTATGAATGTAAAGAACTG
TGGGAAGGCCTTATGGGAGGGATTTCAGAGTTTCAGCAACATAAGAAAAAGTCATAATGGTAAGAAACTCTGCGAATT
GGAAACTATAAAATGAAATTATGTGCTGAAGGAAGGACTCTAAACATATGACTTAAGAAAATTCATAGTGGTGAA
AATCTCTACAAATAGAATAAGGTACAAATGCCTTACTTATGCTTCACAGGTTAGTCAGTCTAAGAAATATTTATA
CAGGAAAAAAATCACCCCAAATAAAATAAATATTTGAAGATCCTTATCTATATTCATTCCCTTCATTACTTTTGGA
AAATTCCTTACTTGTGAATGTTAAAAATGAAAAAAAATCATTTATTATATTTTGCCTCAACTTTAAACATTGGAA
AACTCATTTCTGGGTTAATC

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FIGURE 635

MENLTKHSIECSSFRGDWECKNQFERKQGSQEGHFSEMIFTPEDMPTFSIQHQRIHTDEKLLECKECKGDFSFVS
VLVRHQRIHTGEKPYECKECKGAFSGGANLAYHQRIHTGEKPFECKECKGAFSGSNLTHHQRIHTGEKPYECKE
CGKAFSFGSLIRHQIHSGEKPYECKECKGKSFSFESALIRHHRIHTGEKPYECIDCGKAFSGSGSNLTQHRRHT
GEKPYECKACGMAFSSGSALTRHQRIHTGEKPYICNECKGAFSFGSALTRHQRIHTGEKPYVCKECKGAFNSGSD
LTQHRIHTGEKPYECKECKEKAFRSGSKLIQHQMHTGEKPYECKECKGKTFSSGSDLTQHRRHTGEKPYECKEC
GKAFSGSKLIQHQLIHTGERPYECKECKGKSFSFGSALNRHQRIHTGEKPYECKECKGAFYSGSSLTQHRIHTG
EKLYECKNCGKAYGRDSEFQQHKKSHNGKKLCELETIN

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FIGURE 636

CCACGCGTCCGCGCTCCCCCTCAGCTCCTGCAGTGCTAATTAAGGGAGGGAGCAGCGGGGAGCTTGCAGTGACCAA
GAGGGTGTGAGGCTAGGAGGCCACGATAAACAGGATACGATAAAAGTCCTTAACCAAGACGCAGATGGGAAGAA
GCGTTAGAGCGAGCAGCACTCACATCTCAAGAACCAGCCTTCAAACAGTTCCAGAGATGAGATTATCCTACTTT
ACTTTTGGCTCTTCTTCATGTATACAGAGCTCTATGTGAAGAGGTGCTTTGGCATAACATCAGTTCCCTTTGCCGA
GAACATGTCTCTAGAATGTGTGTATCCATCAATGGGCATCTTAACACAGGTGGAGTGGTTCAAGATCGGGACCCA
GCAGGATTCCATAGCCATTTTCAGCCCTACTCATGGCATGGTCATAAGGAAGCCCTATGCTGAGAGGGTTTACTT
TTTGAATTCAACGATGGCTTCCAATAACATGACTCTTTTCTTCGGAATGCCTCTGAAGATGATGTTGGCTACTA
TTCTGTCTCTTTTACACTTACCCACAGGGAACCTGGCAGAAGGTGATACAGGTGGTTTCAGTCAGATAGTTTTGA
GGCAGCTGTGCCATCAAATAGCCACATTGTTTCGGAACCTGGAAAGAATGTCACACTCACTTGTGCAGCCTCAGAT
GACGTGGCTGTGCAGGCAGTGAGGTGGGAAAAGATCCAGCCCCGTCAGATCGACCTCTTAACCTTACTGCAACTT
GGTCCATGGCAGAAATTTACCTCCAAGTTCCAAGACAAATAGTGAGCAACTGCAGCCACGGAAGGTGGAGCGT
CATCGTACCCCCGATGTACAGTCTCAGACTCGGGGCTTTACCGCTGCTACTTGCAGGCCAGCGCAGGAGAAAA
CGAAACCTTCGTGATGAGATTGACTGTAGCCGAGGGTAAAACCGATAACCAATATACCCTCTTGTGGCTGGAGG
GACAGTTTTATTGTTGTTGTTGTTATCTCAATTACCACCATCATTGTCATTTTCTTAACAGAAGGAGAAGGAG
AGAGAGAAGAGATCTATTTACAGAGTCTGGGATACACAGAAGGCACCCAATAACTATAGAAGTCCCATCTCTAC
CGGTCAACCTACCAATCAATCCATGGATGATACAAGAGAGGATATTTATGTCAACTATCCAACCTTCTCTCGCAG
ACCAAAGACTAGAGTTTAAAGCTTATTCTTGACATGAGTGCATTAGTAATGACTCTTATGTACTCATGCATGGATC
TTTATGCAATTTTTTCCACTACCCAAGGTCTACCTTAGATACTAGTTGTCTGAATTGAGTTACTTTGATAGGAA
AAATACTTCATTACCTAAAATCATTTTTTCATAGAAGTGTTCAGAAAACCTGACTCTAACTGGTTTATATACAAA
AGAAAACCTTACTGTATCATATAACAGAATGATCCAGGGGAGATTAAAGCTTTGGGCAAGGGCTATTTACCAGGGCT
TAAATGTTGTGTCTAGAATTAAGTATGGGCATAAACTGGCTTCTGAATCCCTTTCCAGAGTGTGGATCCATTT
CCTGGTCTTGGCTCACTCTCATGCAGGCTTTCTCTTGTGTTGGCAAGATGGCTGCCAACTCTTGGCAATTCAT
ACATCCTTGTCTTCTGTCTGGTAGAGAGTTTGCTTCTCAAATGGAGCAAACAAATTTGATTATTTTTTCATTGTTA
AATAGGCAACATGACCAGAAAGGATGGAATGGCTTAAGTAACTAAGGGTTCACCTCTAGAGCTGAGAAGCAGGG
TCAAAGCACAAATACTGGGCAATTCAGAGCATGGTTAGAAGAGGAAAGGGGAGTCTCAAAGCTGGAGAGTTTACCA
ACAAATATTGACTGCAGTGATTAAACCAAGACATTTTTGTAACTAAAAAGTGAAATATGGGATGGATTCTAGAAA
TGGGGTATCTCTGTCCATACTTCTAGAATCCACTCTATCAGCATAGTCCAGAAGAATACCTGGCAGTAGAAGAAA
TGAATATTCAAGAGGAAGATAAATGCGAGAGGGCAATCCTTTACTATTCTCATATTTATTTATCTCTCATTCTGT
ATAGAATTCTTGCCGCCATCCCAGGTCTAGCCTTAGGAGCAAATGTAGTAGATAGTCGAATAATAATAACTTAA
TGTTTTGGACATATTTTGTCTACTTTTGAGAATTATTTTAAATATGTAAATTTCTCTCAAAGGGTCAGGCACCTA
GTTATTATTTTTTAATGATTATGTGAAAGTTGAATATAATATACCACTAAAAGTGACAGTTGAAAGTGGTGGCAT
AGGATGGTAGGGTAGAAATTTGGGAGGGGAAAAAGAAATTTGGGAGGGTACAGGCAACAGGAGAAAGGAATCAAAC
CACAGAAAAATACAAAGGGAACTTCTGCTTCACTATTAGACAAAAGACAGCCCTAATGACATCACCACAGTCA
AAGCAATTAGAGACCATACTAATATTGTTTAAATCTAGATGTAGGCTAACAAATGAAAAGTATTTGCCAAACTG
AATAAACTGTCATGGTTACCTTGAAAAA

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FIGURE 637

MDYPTLLLALLHVYRALCEEVLWHTSVPPFAENMSLECVYPSMGILTQVEWFKIGTQQDSIAIFSPTHGMVIRKPY
AERVYFLNSTMASNNMTLFFRNASEDDVGYYSCSLYTPQGTWQKVIQVVQSDSFEEAVPSNSHIVSEPGKNVTL
TCQPQMTWFPYQAVRWEKIQPRQIDLLTYCNLVHGRNFTSKFPRQIVSNCSHGRWSVIVIPDVTVSDSGLYRCYLQ
ASAGENETFVMRLTVAEGKTDNQYTLFVAGGTVLLLLFVISITTIIVIFLNRRRRRRERRDLFTESWDTQKAPNNY
RSPISTGQPTNQSMDDTREDIYVNYPTFSRRPKTRV

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FIGURE 638A

GGCGGCTCGGGACGGAGGACGCGCTAGTGTGAGTGGGGCTTCTAGAACTACACCGACCCTCGTGTCTCCCTTC
ATCCTGCGGGGCTGGCTGGAGCGGCCGCTCCGGTGTGTCCAGCAGCCATAGGGAGCCGCACGGGGAGCGGGAAA
GCGGTGCGGGCCCCAGGCGGGGCGGCCGGGATGGAGCGGGGCCGCGAGCCTGTGGGGAAGGGGCTGTGGCGGCGC
CTCGAGCGGCTGCAGGTTCTTCTGTGTGGCAGTTCAGAAATGATGGATCAAGCTAGATCAGCATTCTCTAACTTGT
TTGGTGGAGAACCATTGTCATATACCCGGTTCAGCCTGGCTCGGCAAGTAGATGGCGATAACAGTCATGTGGAGA
TGAAACTTGCTGTAGATGAAGAAGAAAATGCTGACAATAACACAAAGGCCAATGTCACAAAACCAAAAGGTGTA
GTGGAAGTATCTGCTATGGGACTATTGCTGTGATCGTCTTTTCTTGATTGGATTTATGATTGGCTACTTGGGCT
ATTGTAAAGGGGTAGAACCAAACTGAGTGTGAGAGACTGGCAGGAACCGAGTCTCCAGTGAGGGAGGAGCCAG
GAGAGGACTTCCCTGCAGCACGTCGCTTATATTGGGATGACCTGAAGAGAAAGTTGTGCGAGAACTGGACAGCA
CAGACTTCACCAGCACCATCAAGCTGCTGAATGAAAATTCATATGTCCCTCGTGAGGCTGGATCTCAAAAAGATG
AAAATCTTGCGTTGTATGTTGAAAATCAATTCGTGAATTTAACTCAGCAAAGTCTGGCGTGATCAACATTTTG
TTAAGATTGAGGTCAAAGACAGCGCTCAAACTCGGTGATCATAGTTGATAAGAACGGTAGACTTGTTTACCTGG
TGGAGAATCCTGGGGGTTATGTGGCGTATAGTAAGGCTGCAACAGTTACTGGTAACTGGTCCATGCTAATTTTG
GTACTAAAAAGATTTTGAGGATTTATACACTCCTGTGAATGGATCTATAGTGATTGTGAGAGCAGGGAAAAATCA
CCTTTGCAGAAAAGGTTGCAAATGCTGAAAGCTTAAATGCAATTGGTGTGTTGATATACATGGACCAGACTAAAT
TTCCCATTTGTTAACGCAGAACTTTTCAATCTTTGGACATGCTCATCTGGGGACAGGTGACCCCTACACACCTGGAT
TCCCTTCCTTCAATCACACTCAGTTTCCACCATCTCGGTATCAGGATTGCCTAATATACCTGTCCAGACAACT
CCAGAGCTGCTGCAGAAAAGCTGTTTGGGAATATGGAAGGAGACTGTCCCTCTGACTGGAAAACAGACTCTACAT
GTAGGATGGTAACCTCAGAAAGCAAGAATGTGAAGCTCACTGTGAGCAATGTGCTGAAAGAGATAAAAATTTCTTA
ACATCTTTGGAGTTATTAAAGGCTTTGTAGAACCAGATCACTATGTTGTAGTTGGGGCCCCAGAGAGATGCATGGG
GCCCTGGAGCTGCAAAATCCGGTGTAGGCACAGCTCTCCTATTGAAACTTGCCCAGATGTTCTCAGATATGGTCT
TAAAGATGGGTTTCAGCCCAGCAGAAGCATTATCTTTGCCAGTTGGAGTGTGAGGACTTTGGATCGGTTGGTG
CCACTGAATGGCTAGAGGGATACCTTTTCGTCCTGCAATTTAAAGGCTTCACTTATATTATCTGGATAAAGCGG
TTCTTGGTACCAGCAACTTCAAGGTTTCTGCCAGCCACTGTTGTATACGCTTATTGAGAAAACAATGCAAAATG
TGAAGCATCCGTTTACTGGGCAATTTCTATATCAGGACAGCAACTGGGCCAGCAAAGTTGAGAACTCACTTTAG
ACAATGCTGCTTTCCCTTTTCCTTGCAATTTCTGGAATCCCAGCAGTTTCTTTCTGTTTTTGGCAGGACACAGATT
ATCCTTATTTGGGTACCACCATGGACACCTATAAGGAACGATTGAGAGGATTCTGAGTTGAACAAAGTGGCAC
GAGCAGCTGCAGAGGTCGCTGGTCAGTTCTGTGATTAACTAACCCATGATGTTGAATTGAACCTGGACTATGAGA
GGTACAACAGCCAACTGCTTTTCAATTTGTGAGGGATCTGAACCAATACAGAGCAGACATAAAGGAAATGGGCTGA
GTTTACAGTGGCTGATTCTGCTCGTGGAGACTTCTTCCGTGCTACTTCCAGACTAACACAGATTTTCGGGAATG
CTGAGAAAACAGACAGATTTGTCATGAAGAACTCAATGATCGTGTGATGAGAGTGGAGTATCACTTCCCTCTCTC
CCTACGTATCTCCAAAAGAGTCTCCTTTCCGACATGTCTTCTGGGGCTCCGGCTCTCACACGCTGCCAGCTTTAC
TGGAGAACTTGAACCTGCGTAAACAAAATAACGGTGTCTTTAATGAAACGCTGTTGAGAAACAGTTGGCTCTAG
CTACTTGGACTATTGAGGAGCTGCAAATGCCCTCTCTGGTGACGTTTGGGACATTGACAATGAGTTTTTAAATGT
GATACCCATAGCTTCCATGAGAACAGCAGGGTAGTCTGGTTTCTAGACTTGTGCTGATCGTGCTAAATTTTCAGT
AGGGCTACAAAACCTGATGTTAAATTCATCCCATCATCTTGGTACTACTAGATGTCTTTAGGCAGCAGCTTTT
AATACAGGGTAGATAACCTGTACTTCAAGTTAAAGTGAATAACCACTTAAAAATGTCCATGATGGAATATTCCC
CTATCTCTAGAATTTTAAAGTCTTTGTAATGGGAAGTGCCTCTTCTGTTGTGTTAATGAAAATGTCAGAAAC
CAGTTATGTGAATGATCTCTCTGAATCCTAAGGGCTGGTCTCTGCTGAAGGTTGTAAGTGGTTCGCTTACTTTGA
GTGATCCTCCAACCTCATTGATGCTAAATAGGAGATAACAGGTGAAAGACCTTCCAAATGAGATCTAAGCCT
TTCCATAAGGAATGTAGCAGGTTTCCCTCATTCTGAAAGAACAGTTAACTTTCAGAAAGAGATGGGCTTGTTC
TTGCCAATGAGGTCTGAAATGGAGGTCCTTCTGTGGAATAAATGAGGTTCAACTGTTGATTGAGGAATAAGGC
CTTAATATGTTAACTCAGTGCTATTATGAAAAGAGGGGACCAGAACCAAGACTTAGTATATTTTCTTTTCC
TCTGTCCCTTCCCCATAAGCCTCATTAGTTCTTTGTTATTTTGTTCCTTCCAAAGCACATTGAAAGAGAAC
CAGTTTCAGGTGTTTGTGTCAGACTCAGTTTGTGACACTTTAAGAATAATATGCTGCCAAATTTTGGCCAAAG
TGTTAATCTTAGGGGAGAGCTTTCTGTCTTTTGGCACTGAGATATTTATTGTTTATTTATCAGTGACAGAGTTC
ACTATAAATGGTGTGTTTTTAAATAGAATATAATTATCGGAAGCAGTGCCCTCCATAATTATGACAGTTATACTGT
CGGTTTTTTTTAAATAAAGCAGCATCTGCTAATAAAACCAACAGATACTGGAAGTTTTGCATTTATGGTCAAC

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FIGURE 638B

ACTTAAGGGTTTTAGAAAACAGCCGTCAGCCAAATGTAATTGAATAAAGTTGAAGCTAAGATTTAGAGATGAATT
AAATTTAATTAGGGGTTGCTAAGAAGCGAGCACTGACCAGATAAGAATGCTGGTTTTCTAAATGCAGTGAATTG
TGACCAAGTTATAAATCAATGTCACTTAAAGGCTGTGGTAGTACTCCTGCAAAATTTTATAGCTCAGTTTATCCA
AGGTGTAACCTCTAATTTCCCATTTGCAAAATTTCCAGTACCTTTGTGACAATCCTAACACATTATCGGGAGCAGTG
TCTTCCATAATGTATAAAGAACAAGGTAGTTTTTACCTACCACAGTGTCTGTATCGGAGACAGTGATCTCCATAT
GTTACACTAAGGGTGTAAGTAATTATCGGGAACAGTGTTCCTCATGCAATGACATCTTCAAAG
CTTGAAGATCGTTAGTATCTAACATGTATCCCACTCCTATAATTCCTATCTTTTAGTTTTAGTTGCAGAAACA
TTTTGTGGTCATTAAGCATTGGGTGGGTAAATTCAACCACTGTAAATGAAATTACTACAAAATTTGAAATTTAG
CTTGGGTTTTTGTACCTTTATGGTTTTCTCCAGGTCCTCTACTTAATGAGATAGCAGCATACATTTATAATGTTT
GCTATTGACAAGTCATTTTAATTTATCACATTATTTGCATGTACCTCCTATAAACTTAGTGCGGACAAGTTTTA
ATCCAGAATTGACCTTTTGACTTAAAGCAGAGGGACTTTGTATAGAAGGTTTGGGGGCTGTGGGAAGGAGAGTC
CCCTGAAGGTCTGACACGTCTGCCTACCCATTCGTGGTGATCAATTAATGTAGGTATGAATAAGTTCGAAGCTC
CGTGAGTGAACCATCATATAAACGTGTAGTACAGCTGTTTGTGATAGGGCAGTTGGAACGGCCTCCTAGGGAAA
AGTTCATAGGGTCTCTTCAGGTTCTTAGTGTCACTTACCTAGATTTACAGCCTCACTTGAAATGTGTCACTACTCA
CAGTCTCTTTAATCTTCAGTTTTATCTTTAATCTCCTCTTTTATCTTGGACTGACATTTAGCGTAGCTAAGTGAA
AAGGTCATAGCTGAGATTCCTGGTTCGGGTGTTACGCACACGTACTTAAATGAAAGCATGTGGCATGTTTCATCGT
ATAACACAATATGAATACAGGGCATGCATTTTGCAGCAGTGAGTCTCTTCAGAAAACCCTTTCTACAGTTAGGG
TTGAGTTACTTCCTATCAAGCCAGTACGTGCTAACAGGCTCAATATTCCTGAATGAAATATCAGACTAGTGACAA
GCTCCTGGTCTTGAGATGTCTTCTCGTTAAGGAGTAGGGCCTTTTGGAGGTAAAGGTATA

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FIGURE 639

MMDQARSASFNLFGGEPLSYTRFSLARQVDGDNHSHVEMKLAVDEEENADNNTKANVTKPKRCSGSICYGTIAVIV
FFLIGFMIGYLG YCKGVEPKTECERLAGTESPVREEPGEDFPAARRLYWDDLKRKLSEKLDSTDFSTIKLLNEN
SYVPREAGSQKDENLALYVENQFREFKLSKVWRDQHFKIQVKDSAQNSV IIVDKNGRLVYLVENPGGYVAYS KA
ATVTGKLVHANFGTKKDFEDLYTPVNGSIVIVRAGKITFAEKVANAESLNAIGVLIYMDQTKFPIVNAELSFFGH
AHLGTGDPYTPGFPSFNHTQFPSPRSSGLPNIPVQTISRAAAEKLFGNMEGDCPSDWKTDSTCRMVTSESKNVKL
TVSNVLKEIKILNIFGVIKGFVEPDHYVVGAQRDAWGPGAAGSGVGTALLKLAQMFSDMVLKDGFGQPSRSIIF
ASWSAGDFGSGVATEWLEGYLSSLHLKAFTYINLDKAVLGTSNFKVSASPLLYTLIEKTMQNVKHPVTGQFLYQD
SNWASKVEKLTLDNAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKELIERIPELNKVARAAAEVAGQFVIK
LTHDVELNLDYERYNSQLLSFVRDLNQYRADIKEMGLSLQWLYSARGDFFRATSRLTTDFGNAEKTDRFVMKKLN
DRVMRVEYHFLSPYVSPKESPFRRHVFWGSGSHTLPALLENLKLRLKQNGAFNETLFRNQLALATWTIQGAANALS
GDVWDIDNEF

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FIGURE 640

CCCAGAGCAGCGCTCGCCACCTCCCCCGGCCTGGGCAGCGCTCGCCCGGGAGTCCAGCGGTGTCTGTGGAGC
TGCCGCCATGCCCCCGGGCGGGCGCGCGGTGCGGACCCTCGGTCTCCCGCGCTGCTACTGCTGCTGCTGCT
CCGGCCCGGGCGACGCGGGGCATCACGTGCCCTCCCCCATGTCCGTGGAACACGCAGACATCTGGGTCAAGAG
CTACAGCTTGTACTCCAGGGAGCGGTACATTGTAACTCTGGTTTCAAGCGTAAAGCCGGCAGCTCCAGCCTGAC
GGAGTGCCTGTTGAACAAGGCCACGAATGTCGCCCACTGGACAACCCCCAGTCTCAAATGCATTAGAGACCCTGC
CCTGGTTCACCAAAGGCCAGCGCCACCCTCCACAGTAACGACGGCAGGGGTGACCCACAGCCAGAGAGCCTCTC
CCCTTCTGGAAAAGAGCCCGCAGCTTCATCTCCAGCTCAAACAACACAGCGGCCACAACAGCAGCTATTGTCCC
GGGCTCCAGCTGATGCCTTCAAAATCACCTCCACAGGAACACAGAGATAAGCAGTCATGAGTCTCCACGG
CACCCCTCTCAGACAACAGCCAAGAACTGGGAACCTCACAGCATCCGCCTCCACCAGCCGCCAGGTGTGTATCC
ACAGGGCCACAGCGACACCCTGTGGCTATCTCCAGTCCACTGTCTGTGTGTGGGCTGAGCGCTGTGTCTCT
CCTGGCATGCTACCTCAAGTCAAGGCAAACCTCCCCCGCTGGCCAGCGTTGAAATGGAAGCCATGGAGGCTCTGCC
GGTGACTTGGGGGACCAGCAGCAGAGATGAAGACTTGGAAAACCTGCTCTCACCACCTATGAAACTCGGGGAAACC
AGCCCAGCTAAGTCCGGAGTGAAGGAGCCTCTCTGCTTTAGCTAAAGACGACTGAGAAGAGGTGCAAGGAAGCGG
GCTCCAGGAGCAAGCTCACCAGGCCTCTCAGAAGTCCAGCAGGATCTCACGGAAGTCCCGGTGCGCGCCTCCTG
CGCGAGGGAGCAGGTTCTCCGATTCCCATGGGCACCACCTGCCTGCCTGTCTGCTGCTTGGACCCAGGGCCCAGC
TCCCAGGAGAGACCAAAGGCTTCTGAGCAGGATTTTTATTTCATTACAGTGTGAGCTGCCTGGAATACATGTGG
TAATGAAATAAAAACCCCTGCCCCGAATCTTCCGTCCCTCATCCTAACTTGCAGTTCACAGAGAAAAGTGACATAC
CCAAAGCTCTCTGTCAATTACAAGGCTTCTCCTGGCGTGGGAGACGTCTACAGGGAAGACACCAGCGTTTGGGCT
TCTAACCCCTGTCTCCAGCTGCTCTGCACACATGGACAGGGACCTGGGAAAGGTGGGAGAGATGCTGAGCCCA
GCGAATCCTCTCCATTGAAGGATTGAGGAAGAAGAAAACCTCAACTCAGTGCCATTTTACGAATATATGCGTTTAT
ATTTATACTTCTTGTCTATTATATCTATACATTATATATTATTTGTATTTTGACATTGTACCTTGTATAAACAA
AATAAACATCTATTTTCAATATTTTAAATGCA

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FIGURE 641

MAPRRARGCRTLGLPALLLLLLLLRPPATRGITCPPPMSVEHADIWVKSYSLYSRERYICNSGFKRKAGTSSLTEC
VLNKATNVAHWTTPSLKCIRDPALVHQRPAAPPSTVTTAGVTPQPESLSPSGKEPAASSPSSNNTAATTAAIVPGS
QLMPSPKSPSTGTTEISSHESHGTPSQTTAKNWELTASASHQPPGVYPQGHSDTTVAISTSTVLLCGLSAVSLLA
CYLKSQRQTPPLASVEMEAMEALPVTWGTSSRDEDELENCSHHL

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FIGURE 642

AAACCACAAGACAGACTTGCAAAAGAAGGCATGCACAGCTCAGCACTGCTCTGTTGCCTGGTCCTCCTGACTGGG
GTGAGGGCCAGCCCAGGCCAGGGCAGCCAGTCTGAGAACAGCTGCACCCACTTCCCAGGCAACCTGCCTAACATG
CTTCGAGATCTCCGAGATGCCTTCAGCAGAGTGAAGACTTTCTTTCAAATGAAGGATCAGCTGGACAACCTGTTG
TTAAAGGAGTCCTTGCTGGAGGACTTTAAGGGTTACCTGGGTTGCCAAGCCTTGCTCTGAGATGATCCAGTTTAC
CTGGAGGAGGTGATGCCCCAAGCTGAGAACCAAGACCCAGACATCAAGGCGCATGTGAATCCCTGGGGGAGAAC
CTGAAGACCCTCAGGCTGAGGCTACGGCGCTGTCATCGATTCTTCCCTGTGAAAACAAGAGCAAGGCCGTGGAG
CAGGTGAAGAATGCCTTTAATAAGCTCCAAGAGAAAGGCATCTACAAAGCCATGAGTGAGTTTGACATCTTCATC
AACTACATAGAAGCCTACATGACAATGAAGATACGAAACTGAGACATCAGGGTGGCGACTCTATAGACTCTAGGA
CATAAATTAGAGGTCTCCAAAATCGGATCTGGGGCTCTGGGATAGCTGACCCAGCCCCTTGAGAAACCTTATTGT
ACCTCTCTTATAGAATATTTATTACCTCTGATACCTCAACCCCCATTCTATTTATTTACTGAGCTTCTCTGTGA
ACGATTTAGAAAGAAGCCCAATATTATAATTTTTTTCAATATTTATTATTTTACCTGTTTTTAAGCTGTTTCCA
TAGGGTGACACACTATGGTATTTGAGTGTTTTAAGATAAATTATAAGTTACATAAGGGAGGAAAAAAATGTCT
TTGGGGAGCCAACAGAAGCTTCCATTCCAAGCCTGACCACGCTTTCTAGCTGTTGAGCTGTTTTCCCTGACCTCC
CTCTAATTTATCTTGCTCTGCGCTTGGGGCTTCCTAACTGCTACAAATACTCTTAGGAAGAGAAACCAGGGAGC
CCCTTTGATGATTAATTCACCTTCCAGTGTCTCGGAGGGATTCCCTAACCTCATTCCCCAACCACTTCATTCTT
GAAAGCTGTGGCCAGCTTGTTATTTATAACAACCTAAATTTGGTTCTAGGCCGGGCGCGGTGGCTCACGCCTGTA
ATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACTTGAGGTCAGGAGTTCCCTAACCAAGCCTGGTCAACATGG
TGAAACCCCGTCTCTACTAAAAATACAAAATTAGCCGGGCATGGTGGCGCGCACCTGTAATCCCAGCTACTTGG
GAGGCTGAGGCAAGAGAATTGCTTGAACCCAGGAGATGGAAGTTGCAGTGAGCTGATATCATGCCCTGTACTCC
AGCCTGGGTGACAGAGCAAGACTCTGTCTCAAAAAATAAAAAATAAAATTTGGTTCTAATAGAACTCAGT
TTTAACTAGAATTTATTCAATTCCTCTGGAATGTTACATTGTTTGTCTGTCTTCATAGCAGATTTTAATTTGA
ATAAATAAATGTATCTTATTCATC

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FIGURE 643

MHSSALLCCLVLLTGVRASPGQGTQSENSCTHFPGNLPNMLRDLDASRVKTFQMKDQLDNLLKESLLEDFK
GYLGCQALSEMIQFYLEEVMQAENQDPDIKAHVNSLGENLKTLLRLRLRRCHRFLPCENKSKAVEQVKNFNLQ
EKGIYKAMSEFDIFINYIEAYMTMKIRN

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FIGURE 644

CTGAAGCTTGCATGCCTGCAGGTCGACCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGTTTTCTTTCTT
CCAGAAGGAGATTTAACCATAGTAGAAAGAATGGAGAATTAATACTGCCTTCTTCTGTGGGCTGTGATTTTCA
GAGGGGAATGCTAAGAGGTGATTTTCAATGTTGGGACTCAAAGGTGAAGACACTGAAGGACAGAATTTTTGGCAG
AGGAAAGATCTTCTTCGGTCACCATACTTGAGTTAGCTCTAGGGAAGTGGAGGTTTCCATTGGAATTCTATAGC
TTCTTCCAGGTCATAGTGTCTGCCCCCACCTTCCAGTATCTCTGATATGCAGCATGAATGAAAATGGCAAGTT
TCCTGGCCTTCTTCTGTCTCACTTTTCGTGTCTGCCTCCTTTTGTCTCAGCTGCTCATGCCTCACTCAGCTCAGT
TTTCTGTGCTTGGACCCTCTGGGCCATCCTGGCCATGGTGGGTGAAGACGCTGATCTGCCCTGTACCTGTTC
CGACCATGAGTGCAGAGACCATGGAGCTGAAGTGGGTGAGTTCAGCCTAAGGCAGGTGGTGAACGTGTATGCAG
ATGGAAGGAAGTGAAGACAGGCAGAGTGCACCGTATCGAGGGAGAATTCGATTCTGCGGGATGGCATCACTG
CAGGGAAGGCTGCTCTCCGAATACACAACGTACAGCCTCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATG
GTGACTTCTATGAAAAAGCCCTGGTGGAGCTGAAGGTTGCAGCACTGGGTTCTGATCTTACGTTGATGTGAAGG
GTTACAAGSATGGAGGGATCCATCTGGAGTGCAGGTCCACTGGCTGGTACCCCCAACCCCAATACAGTGGAGCA
ACACAAGGGAGAGAATCCCGACTGTGGAAGCACCTGTGGTTGCAGACGGAGTGGGCCTGTATGCAGTAGCAG
CATCTGTGATCATGAGAGGCAGCTCTGGGGAGGGTGTATCCTGTACCATCAGAAGTTCCCTCCTCGGCCTGGAAA
AGACAGCCAGCATTTCCATCGCAGACCCCTTCTTCAGGAGCGCCAGAGGTGGATCGCCGCCCTGGCACGGACCC
TGCTGTCTTGTCTGTCTTCTTGGGGGAGCCGTTACTTCTGTGGCAACAGCAGGAGGAAAAAAGACTCAGT
TCAGAAAGAAAAAGAGAGAGCAAGAGTTGAGAGAAATGGCATGGAGCACAAATGAAGCAAGAACAAAGCACAAAG
TGAAGCTCCTGGAGGAATCAGATGGAGAAGTATCCAGTATGCATCTCGGGGAGAGAGACATTAGCCTATAATG
AATGGAAGAAAGCCCTCTTCAAGCCTGCGGATGTGATTCTGGATCCAAAAACAGCAACCCCATCCTCCTTGTTT
CTGAGGACCAGAGGAGTGTGCAGCGTGCCAAGGAGCCCCAGGATCTGCCAGACAACCTGAGAGATTTAATTGGC
ATTATTGTGTTCTCGGCTGTGAGAGCTTATATCAGGGAGACATTACTGGGAGGTGGAGGTAGGGGACAGGAAAG
AGTGGCATATAGGGGTGTGCAGTAAGAATGTGCAGAGAAAAGGCTGGGTCAAATGACACCTGAGAATGGATTCT
GGACTATGGGGCTGACTGATGGGAATAAGTATCGGACTCTAATGAGCCCAGAACCAACCTGAAACTTCCTAAGC
CCCCTAAGAAAGTGGGGGTCTTCTTGACTATGAGACTGGAGATATCTATTCTACAATGTGTGGATGGATCGC
ATATTCTATCTTCTTGACGCTCTCCTTCTCTGAGGCTCTATATCCTGTTTTTCAAGATTTTGACCTTGGAGCCCA
CGGCCCTGAGTATTTGTCCAGCGTCAAAAGAAGAAGAGAGTTTCTTCAATCTGACCGAGTGTGATCATTCCCT
AGAGACACCAGTAACCCCGGGCTTAGCTAACGAAAGTGGGGAGCCTCAGGCTGAAGTAACCTTTCTCTGCTTCTC
CCTGCCCAGCTCAGAGCTGAGGGCTCCCCCTCCACAGCAACCAATCACAACCATAAAGCTACAAGCACGCACTG
AAGCACTTACTGATACTCATTCAATTATTCTATGACAGTTGTTTGTGTTTGGTACCATCTTATTTCCCTTA
TACAGATAAGGAACTGGGGTGCAGAAAAGTGAATTGACTACAAAGTAGACATGACTAGTTAAACAACACAGCTGG
GATCTAAACAGCAATAACTAACATTAATGGAGAATTAATGCTCTGAGTGTGTGTTATGAGCTTTGGTGGAT
GTCACCTCTTTAATCCTCGCAACACCCTGTGCGGTAGTCTCATTAGCAAGTATGGAAGTTGAGGCAGGGCAACA
TTAAGCAACTTACATAACTCATGCAGTAATTTCTGCAGTTGGGAGATGTTTACGCTTCAGTCCCGGCCCTATGGC
CGTTCTTTTCCACCCTGTTTCTTCCCCATAGGAAGAACCACCTGTAGCCCTGAGGTTCTTTTCCAGGATGGC
TCCAGGATAAGGATCACTGTAGGTGGTTGTGGAGTTGACACCCCTGTTGACTCCTTCCAGCTGATTGTCTAGAGC
CTTAGACCCAGCACGCCTTGGATTAGCTTTGCAGAGTGTCTTGGTTGAGAGAATAACCTCACCGTACCCACATGA
CACGTGATTTGGAAAGAGACTAGAGGCCACACTTGATAAATCATGGGGAACAGATGTGTTCCACCCAACAAATGT
GATAAGTGATCATGCAGCCAGAGCCAGCCTTCTTCAATCAAGGTTTCCAGGCAGAGCAAATACCTAGAGATTT
TCTGTGATATAGGAAATTTGGATGAAGGGAGCTAGAAGAAATACAGGGATTTTTTTTTTTTTTAAAGATGGAGTC
TTACTCTGTTGCTAGGCTGGAGTGCAGTGGTGGATCTCAGTCCCTGCAACCTCCACCTCCTGGGTTCAAACAA
TTCTCCTGCCTCAGCCTCCCGAGTACTGGGAATATAGGTGCACGCCACCACACCAACAAATTTTTGTACTTTTA
GTACAGATGAGGGTTCACTATGTTGGCCAGGATGGTCTCGATCTCTTGACCTCATGATCCACCTCAGCTCGGTCTC
CCAAAGTGCTGGGATTACAGGCTTGAGCCACCGGGTGACCGGCTTACAGGGATATTTTTAATCCCGTTATGGACT
CTGTCTCCAGGAGAGGGGTCTATCCACCCCTGCTCATTGGTGGATGTTAAACCAATATCTTTCAACTGCTGCC
TGCTAGGGAAAAACTACTCCTCATTATCATCATTATTATTGCTCTCCACTGTATCCCTCTACCTGGCATGTGCT
TGCAAGTTCTAGTTGTTCAATAAATTTGTTAATAATGCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 645

MKMASFLAFLLLNFRVCLLLLQLLMPHSAQFSVLGPSPGILAMVGEDADLPCHLFPTMSAETMELKWVSSSLRQV
VNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYL CYFDGDFYEKALVELKVAALGSDL
HVDVKGKYGDDGGIHLECRSTGWYPQPQIQWSNNKGENIPTVEAPVVADGVGLYAVAASVIMRGSSGEGVSC TIRSS
LLGLEKTASISIA DPF FRS AQRWIAALARTLPVLLLLLGGAGYFLWQQQEEKKTQFRKKKREQELREMAWSTMKQ
EQSTRVKLLEELRWRSIQYASRGERHSAYNEWKKALFKPADVILDPKTANPILLVSEDQRSVQRAKEPQDL P DNP
ERFNWHYCVLGCE SFISGRHYWEVEVGDRKEWHIGVCSKNVQRKGWVKMTPENGFWTMGLTDGNKYRTLTEPRIN
LKLPPPKKVG VFLDYETGDISFYNAV D GSHIHTFLDVSEALYPVFRILTLEPTALSICPA

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FIGURE 646

AATTCCGGAATTCCCCGGCCTGGCCAGGGCGGAGCGGCGCCAGTAGGGACCCATTTCATTGTGCCGGCGCCTCAC
TGGGCACGGGGCCCCAAGCTGACGGCGTGCACGGGAGCCTGCGGAGCCTGGGTGGGAAGAACAGGCCCTGGAGGG
CACTTGACCTTAAGCCTCTTTTCCCTCCGCAGAGAGGAAGCGGGAGAGGAGCCACGTCGCCTGTCACCCAATATC
TCCAGCCGCGCAGTCCCGAAGAGTGTAAGATGTTTCGCCTGCGCCAAGCTCGCCTGCACCCCTCTCTGATCCGAG
CTGGATCCAGAGTTGCATACAGACCAATTTCTGCATCAGTGTTATCTCGACCAGAGGCTAGTAGGACTGGAGAGG
GCTCTACGGTATTTAATGGGGCCCAGAATGGTGTGTCTCAGCTAATCCAAAGGGAGTTTCAGACCAGTGCAATCA
GCAGAGACATTGATACTGCTGCCAAATTTATTGGTGCAGGTGCTGCAACAGTAGGAGTGGCTGGTTCTGGTGCTG
GTATTGGAACAGTCTTTGGCAGCCTTATCATTGGTTATGCCAGAAACCCTTCGCTGAAGCAGCAGCTGTTCTCAT
ATGCTATCCTGGGATTTGCCTTGTCTGAAGCTATGGGTCTCTTTTGTGTTGATGGTTGCTTCTTGATTTTGTGTTG
CCATGTAAACAAATTACTGCTTGACATGTTGGCATTTCATATTAATTACGGATGTAATTCTGTGTATCTTACTGTGA
CTCCGAAAACGTAGTATTGGTGTCTATGGGAATGTACGTTATTTCCAAAGTCATTTCAATAAGATGAAAACCTT

A

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FIGURE 647

MFACAKLACTPSLIRAGSRVAYRPISASVLSRPEASRTGEGSTVFNGAQNGVSQLIQREFQTSAISRDIDTAAKF
IGAGAATVGVGAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILGFALSEAMGLFCLMVAFLILFAM

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FIGURE 648

GGCACGAGGGGAGTGGAAAGTTCTCCGGCAGCCCTGAGATCTCAAGAGTGACATTTGTGAGACCAGCTAATTTGA
TTAAAATTCTCTTGGAATCAGCTTTGCTAGTATCATACCTGTGCCAGATTTTCATCATGGGAAACAGCTGTTACAA
CATAGTAGCCACTCTGTTGCTGGTCCTCAACTTTGAGAGGACAAGATCATTGCAGGATCCTTGTAGTAACTGCC
AGCTGGTACATTCTGTGATAATAACAGGAATCAGATTTGCAGTCCCTGTCTCCAAATAGTTTCTCCAGCGCAGG
TGGACAAAGGACCTGTGACATATGCAGGCAGTGTAAGGTGTTTTTCAGGACCAGGAAGGAGTGTTCTCCACCAG
CAATGCAGAGTGTGACTGCACTCCAGGGTTTCACTGCCTGGGGGCAGGATGCAGCATGTGTGAACAGGATTGTAA
ACAAGGTCAAGAAGTACAAAAAAGGTTGTAAAGACTGTTGCTTTGGGACATTTAACGATCAGAAACGTGGCAT
CTGTCCAGCCCTGGACAAACTGTTCTTTGGATGGAAAGTCTGTGCTTGTGAATGGGACGAAGGAGAGGGACGTGGT
CTGTGGACCATCTCCAGCCGACCTCTCTCCGGGAGCATCCTCTGTGACCCCGCTGCCCTGCGAGAGAGCCAGG
ACACTCTCCGAGATCATCTCCTTTCTTTCGCTGACGTCGACTGCGTGTCTTCTGCTGTTCTTCTCCTCAC
GCTCCGTTTCTCTGTTGTTAAACGGGGCAGAAAGAACTCCTGTATATATTCAAACAACCATTTATGAGACCAGT
ACAACTACTCAAGAGGAAGATGGCTGTAGCTGCCGATTTCCAGAAGAAGAAGGAGGATGTGAAGTGTGAAA
TGGAAGTCAATAGGGCTGTTGGGACTTTCTTGAAAAGAAGCAAGGAAATATGAGTCATCCGCTATCACAGCTTTC
AAAAGCAAGAACACCATCCTACATAATACCCAGGATTTCCCAACACACGTTCTTTTCTAAATGCCAATGAGTTG
GCCTTTAAAAATGCACCACCTTTTTTTTTTTTTTTGACAGGGTCTCACTCTGTCACCAGGCTGGAGTGCAGTGGC
ACCACCATGGCTCTCTGCAGCCTTGACCTCTGGGAGCTCAAGTGATCCTCCTGCCTCAGTCTCCTGAGTAGCTGG
AACTACAAGGAAGGGCCACCACCTGACTAACTTTTTTGTGTTTTTGTGTTGGTAAAGATGGCATTTACCATGTT
GTACAGGCTGGTCTCAAACTCCTAGGTTCACTTTGGCCTCCCAAAGTGCTGGGATTACAGACATGAAGTCCAGG
CCCGGCCAAAATAATGCACCACCTTTAACAGAACAGACAGATGAGGACAGAGCTGGTGATAAAAAAAAAAAAAA
AAAGCATTTTCTAGATACCCTTAACAGGTTTGAGCTAGTTTTTTTGAAATCCAAAGAAAATTATAGTTTAAATT
CAATTACATAGTCCAGTGGTCCAACATAATTATAATCAAAATCAATGCAGGTTTGTTTTTTGGTGCTAATATGA
CATATGACAAATAAGCCACGAGGTGCAGTAAGTACCCGACTAAAGTTTCCGTGGGTTCTGTCTATGTAACACGACAT
GCTCCACCGTCAGGGGGGAGTATGAGCAGAGTGCCTGAGTTTAGGGTCAAGGACAAAAACCTCAGGCCTGGAGG
AAGTTTTGGAAAAGAGTTCAAGTGTCTGTATATCCATGCTCTTCCATCCTCACACCTTCTGCCTTTGTCTCTGC
TCCCTTTTAAAGCCAGGTTACATTCTAAAAATTCTTAACTTTTAACATAATATTTTATACCAAAGCCAATAAATGA
ACTGCATATGAAA

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FIGURE 649

MGNSCYNIVATLLLVLNFERTRSLQDPCSNCPAGTFCDNNRNQICSPCPPNSFSSAGGQRTCDICRQCKGVFRTR
KECSSTSNAECDCTPGFHCIGAGCSMCEQDCKQGQELTKKGCKDCCFGTFNDQKRGICRPWTNCSLDGKSVLVNG
TKERDVVCGPSPADLSPGASSVTPPAPAREPGHSPQIIISFFLALTSTALLFLLFFLTLRFSVVKRGRKKLLYIFK
QPFMRPVQTTQEEDGCSCRFFEEEEGGCEL

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FIGURE 650

GACCACGCGTATCGATGTCGACCCACAGGATTGTCACAGAGGGCAGGGTGGTGAAGTGAAGGACCAGCTCCTCATGC
TTGAGGCTGTGGTGATGCACCTCGGGATCCGCTCTGCCCGCTGTGTCTGGGCATGAGAGGTCAGCAGGTCATCC
TGCACCTGCCCCATCCCAGAAGGGGCCCTTCTGGACATGGGAGCCTAGTGCCCCCTCGAACTCTGCTCCAGGTCC
TACAGGATCCAGCCCTGAAAGACCTCGTCCTACCTGCCCCACCTGCCCTGGCATTCCCTGATCCTGCGGCCCC
AGTATGAGATCCAAGCCATCATGCACATGCGCAGGACCATTGTCAAGATCCCTTCTACCCTGGAGGTCGACGTGG
AGGACGTACCCGCTCCTCCCGGCACGTCCACTTTATCAAACCGCTGCTGCTGAGCGAGGTCCTGGCCTGGGAAG
GCCCTTTCCCCCTGTCCATGGAGATCCTGGAGGTTCTGAGGGCCGCCCATCTTCTCAGCCCGTGGGTGGGCT
CCTTGCAAAAAGGCCAGAGGCTTTGCGTCTATGGCCTAGCCTACCAACCCTGGCGGGTCTGGCCTCAAGCAAGG
GCCGCAAGGTGCCAGGCACTTCTGGTGTGAGGGGGCTACCAAGGCAAGCTGCGGCGGCGGCAAGGGAGTTCC
CCACGGCCTATGACCTCCTAGGTGCTTTCCAGCCAGGCCGGCCACTCCGGGTGGTGGCCACAAAGGACTGTGAGG
GCGAGAGGGAGGAGAATCCCGAGTTCACGTCCCTGGCTGTGGGTGACCGGCTGGAGGTGCTGGGGCCTGGCCAGG
CCCATGGGGCCAGGGCAGTGACGTGGATGTCTGGTTTGTACGCGGCTGAGTGACCAAGGCTGGGAAGATGAGG
AGGAAGAGTGCAAGAGGAGGAGGACAGACCCAGAGCGGGTCTGCTGCCCTTCCACTTCCCTGGCAGTTTCTGTTGA
GGAGATGAGTGACAGCCGGCGCTACAGCCTGGCAGATCTGACTGCCAGTTTTCAATGCCTTGTGAGGTCAAGGT
GGTGGCCAAGGACACCAAGCCACCCCAATGACCTCAGAACCTCCTTCTGGGCTGCGGCTGGAGGAGAAGATCA
CAGAGCCATTCTGGTGGTGAGCCTGGACTCTGAGCTGGGATGTGCTTTGAGATCCCTCCCCGAGGCTGGACCT
GACTGTCTGGAGGCCAAGGGGAGCCAGACTTGCCAGAGGGGTCTCTCCCATAGCCACAGTGGAGGAAGCTGG
AACAGACACCTTTTATTATTGTCTTCGGAAGTTACCAGCCTGTGAGATCCAAGCCCCCACCAGGCCCTTAA
AAATCAGGGCCTCAGCAAGCAGAGGAGACACAGCAGTGAAGGAGGCGTCAAGTCTTCTCAAGTCTTAGGATTGCA
GCAACACGTTGGGCTGCCCAAACCAAGGCGAAGACCTTGCCAGAGTTTCATCAAGGATGGCTCCAGTACGTACAG
CAAGATTCTGCCACAGGAAGGGCCACAGGCCCGCTAAGCCCCAAGGCAGGATCTAGATGATGATGAACATGA
TTATGAAGAAATACTTGAGCAATTCAGAAAACCATCTAAGTGTCTGGAGGAACACGCTTCTTAAGTGTCTTC
TCAGGGAATCCGACACCAGCCAACATTTTAAGCCTCTAAAAGACCTCGGGCAAGTCTCACAGAACTGAGCTGC
AGACGGGGAGTAGCTTTGTGGAACTGATTTGATGGACACTGCACCAGCTTCCTTCAGGTTCTAGATTCTTGCTA
CTTAGGGCGGGCTGGTTTGGACCTAACATCTCGCACGTGACTCCCTCAGCCTCAGAGCCTTGGGATGCAGAGCAG
CTGGCAGGGTTCTCTCAATCCTGCAACCCACAGCTGTCCACCGGTGGATGCAGAGGGGAATCCGAGGCCATCAA
CCTTGGTGACAGCAGCGCAGTGCCAATGCTGATCACTGCATGGGAGATTTTGTAAACGTCTGCCACCCCACT
CTCACCCCAAGCTCTAAGCCCCGGGAGGCCTGGACTGTCTTCTCATCTCTGTAGCACCAAGCCTGATAGATC
TGTATATGGTAAACAGGGGTTTAAACCATGTGGTTAACATGGATTAATGTGGGAATTTGGCTTCAAGAACACAA
CCTTAGGACCTTGGGCCCCAAAAGCTGGTGGTGAATGAGAGGAGCCAATTTAAGAAGACCCTTATGGAGACCTG
AGGCTGCAGAACTGGTAGGTTTCATCAGGTGGTTAAAGTCGTCAAAGTTGTAAGTGACTAACCAAGATTATTC
ATTTTAAACCACAGAATAAAAATGACACCTGAGCTTCTCC

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FIGURE 651

MEGQQVILHLPLSQKGFWTWEPSPRILLQVLQDPALKDLVLTCTLPWHSILRPQYEIQAIMHMRTIVKIP
STLEVDVEDVTASSRHVHFIPKLLLSEVLAWEGFFPLSMEILEVPEGRPIFLSPWVGSQKQRLCVYGLASPPW
RVLASSKGRKVPRHFLVSGGYQGKLRRRPREFPTAYDLLGAFQPGRPLRVVATKDCEGEREENPEFTSLAVGDRL
EVLGPGQAHGAQGSDDVDVLCQRLSDQAGEDEEECKEEAETQSGSCCPSTSLAVSWRR

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FIGURE 652

CTAGCTCTGTGGGAAGGTTTTTGGGCTCTCTGGCTCGGATTTTGCAATTCTCCCTGGGGACTGCCGTGGAGCCGC
ATCCACTGTGGATTATAATTGCAACATGACGCTGGAAGAGCTCGTGGCGTGCGACAACGCGGCGCAGAAGATGCA
GACGGTGACCGCCGCGGTGGAGGAGCTTTTGGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGA
GTCGGCCAAGTTGATGAATGTGGACCCAGACAGCGTGGTCTCTGCTCTTGCCATTGACGAGGAGGAGGAGGA
TGACATCGCCCTGCAATCCACTTCACGCTCATCCAGTCCTTCTGCTGTGACAACGACATCAACATCGTGC GG GT
GTCGGGCAATGCGCGCTGGCGCAGCTCCTGGGAGAGCCGGCCGAGACCCAGGGCACCACCGAGGCCCCGAGACCT
CCACTGTCTTCCCTTCCTACAGAACCCTCACACGGACGCCTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTA
CTGCGAAGAAAGCCGGGGCAACAACCAGTGGGTCCCCTACATCTCTCTTCAGGAACGCTTGAGGGCCCTTCCCAGCA
GCAGAACTCTGTTGAGTTGCTGCCAACAAACAAAAATACAATAAATATTTGAACCCCTCCCCCCCAGCACAAACC
CCCCAAAACAACCCAACCCACGAGGACCATCGGGGGCAGGTCGTTGGAGACTGAAGAGAAAAGAGAGAGAGGAGA
AGGGAGTGAGGGGCCGCTGCCGCCTTCCCCATCACGGAGGGTCCAGACTGTCCACTCGGGGGTGGAGTGAGACTG
ACTGCAAGCCCCACCTCCTTGAGACTGGAGCTGAGCGTCTGCATACGAGAGACTTGGTTGAAACTTGGTTGGTC
CTTGCTGTCACCCTCGACAAGACCACACTTTGGGACTTGGGAGCTGGGGCTGAAGTTGCTCTGTACCCATGAACT
CCCAGTTTGCGAATTAATAAGAGACAATCTATTTTGTACTTGCACCTGTTATTTCGAACCACTGAGAGCGAGATG
GGAAGCATAGATATCTATATTTTTTATTTCTACTATGAGGGCCTTGTAATAAATTTCTAAAGCCTCAAAAAA

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FIGURE 653

MTLEELVACDAAQKMQTVTAAVEELLVAAQRQDRLTVGVYESAKLMNVDPDSVVLCLLAIDEEEDDIALQIHF
TLIQSFCCDNDINIVRVSGNARLAQLLGEP AETQGTTEARDLHCLPFLQNPHTDAWKSHGLVEVASYCEESRGN
QWVPYISLQER

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FIGURE 654

CCCAGCTCCCTGAAACAACAGTAACCTACCCCTGTGGGTCATCATCATGCCCTCCGACCTGGCCAAGAAGAAGGC
AGCCAAAAAGAAGGAGGCTGCCAAAGCTCGACAGCGGCCAGAAAAAGGACATGAAGAAAATGGAGATGTTGTCAC
AGAACCACAGGTGGCAGAGAAGAATGAGGCCAATGGCAGAGAGACCACAGAAGTAGATTGCTGACCAAGGAGCT
AGAGGACTTTGAGATGAAGAAAGCTGCTGCTCGAGCTGTCACTGGCGTCTGGCCTCTACCCCAACAGTACTGA
TGTTACATCATCAACCTCTCACTCACCTTTTCATGGTCAAGAGCTGCTCAGTGACACCAAAGTGAATTAAGTCT
AGGCCGTCGTTATGGCCTCATTGGTTTAAATGGAATTGAAAGTCCATGCTGCTCTCTGCTATTGGGAAGCGTGA
AGTGCCCATCCCTGAGCACATCGACATCTACCATCTGACTCGAGAGATGCCCCCTAGTGACAAGACACCCCTGCA
TTGTGTGATGGAAGTCGACACAGAGCGGGCCATGCTGGAGAAAGAGGCAGAGCGGCTGGCTCATGAGGATGCGGA
GTGTGAGAAGCTCATGGAGCTCTACGAGCGCCTGGAGGAGCTGGATGCCGACAAGGCAGAGATGAGGGCCTCGCG
GATCTTGTCATGGACTGGGTTTACACCTGCCATGCAGCGCAAGAAGCTAAAAGACTTCAGTGGGGGCTGGAGGAT
GAGGGTTGCCCTTGCCAGAGCCCTCTTTATTCGGCCCTTCATGCTGCTCTGGATGAGCCTACCAACCACCTGGA
CCTAGATGCTTGCGTGTGGTTGGAAGAAGAACTAAAACTTTTAAGCGCATCTTGGTCTCGTCTCCCATTTCCCA
GGATTTTCTGAATGGTGTCTGTACCAATATCATTACATGCACAACAAGAACTGAAGTATTATACGGGTAAATTA
TGATCAGTATGTGAAGACGCGGCTAGAGCTGGAGGAGAACCAGATGAAGAGGTTTCACTGGGAGCAAGATCAGAT
TGCACACATGAAGAACTACATTGCGAGGTTTGGTCATGGCAGTGCCAAGCTGGCCCCGGCAGGCCAGAGCAAGGA
GAAGACGCTACAGAAAATGATGGCATCAGGACTGACAGAGAGGGTCGTGAGCGATAAGACACTGTCTATTTTATTT
CCCACCATGTGGCAAGATCCCTCCACCTGTCATTATGGTGCAAAATGTGAGCTTCAAGTATACAAAAGATGGGCC
TTGCATCTACAATAATCTAGAATTTGGAATTGACCTTGACACACGAGTGGCTCTGGTAGGGCCCAATGGAGCAGG
GAAGTCAACTCTTCTGAAGCTGCTAACTGGAGAGCTACTACCCACAGATGGCATGATCCGAAAACACTCTCATGT
CAAGATAGGGCGTTACCATCAGCATTTACAAGAGCAGCTGGACTTAGATCTCTACCTTTGGAGTACATGATGAA
GTGCTACCCAGAGATCAAGGAGAAGGAAGAAATGAGGAAGATCATTGGGCGATACGGTCTCACTGGGAAACAACA
GGTGAGCCCAATCCGGAACCTGTGACAGCGGCAGAAAGTGCCGAGTGTGTCTGGCCTGGCTGGCCTGGCAGAACCC
CCACATGCTCTTCTGGATGAACCCACCAATCACCTGGATATCGAGACCATCGACGCCCTGGCAGATGCCATCAA
TGAGTTTGAGGGTGGTATGATGCTGGTCAGCCATGACTTCAGACTCATTGAGCAGGTTGCACAGGAAATTTGGGT
CTGTGAGAAGCAGACAATCACCAGTGGCCTGGAGACATCCTGGCTTACAAGGAGCACCTCAAGTCCAAGCTGGT
GGATGAGGAGCCCCAGCTCACCAGAGGACCCACAACGTGTGCACCTGACATTGGCATCTCTGCCAAGGCCATG
AGCATCATGAACTCGTTTGTAAACGACGTGTTTGAGCAGCTGGCGTGTGAGGCTGCCCGGCTGGCCAGTACTCG
GGCCGACCAACCTGACATCCCGAGAAGTCCAGACGGCTGTGCGTCTGCTGCTGCTGCTGGGGAGCTGGCCAAGCAC
GCTGTGCTGAGGGGCACCAAGGCTGTACCAAGTACACCAGCTCCAAGTGACCCAGGGCCTGACAAAAATAAAGG
GTGAACTGTTAAAAA

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FIGURE 655

MPSDLAKKKAAKKKEAAKARQRPRKGHEENGDVVTEPQVAEKNEANGRETTEVDLLTKELEDFEMKAAAARAVTG
VLASHPNSTDVHIINLSLTFHGQELLSDTKLELNSGRRYGLIGLNGIGKSMLLSAIGKREVPIPEHIDIYHLTRE
MPPSDKTPLHCVMEVDTERAMLEKEAERLAHEDAECEKLMELYERLEELDADKAEMRASRIHGLGFTPAMQRKK
LKDFSGGWRMRVALARALFIRPFMLLLDEPTNHLDLDACVWLEELKTFKRILVLVSHSQDFLNGVCTNI IHMHN
KKLKYYTGNYDQYVKTRLELEENQMKRFHWEQDQIAHMKNYIARFGHGSAKLARQAQSKEKTLQKMMASGLTERV
VSDKTLSTFYFPFCGKIPPPVIMVQNVSFKYTKDGPCYNNLEFGIDLDRVALVGPNGAGKSTLLKLLTGELLPT
DGMIRKHSVHKIGRYHQHLQEQLDLDLSPLEYMMKCYPEIKEKEEMRKIIIGRYGLTGKQQVSPIRNLSDGQKCRV
CLAWLAWQNPMLFLDEPTNHLDIETIDALADAINEFEGGMLLVSHDFRLIQQVAQEIWVCEKQTITKWPGDILA
YKEHLKSKLVDEEPQLTKRTHNVCTLTLASLPRP

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FIGURE 656A

CACCAGGTGAATGGCTAAAGAATCTGGAATAAGCTTGAAAGAAATACAGGTCTGGCAAGGCAATGGAAAGTTGG
TCCTGAGAAAAGGGTGCCAGCGATGCCTGGATCGCTGTGGAAGTGAAGATACAGTCCAGATCCTCACCTCCAC
CATGCCACCCCTCCACCAATAAATCCTGGAGGACCGAGGCCAGTGTCTTCACTCCTACTGCATTAAAGCAATGG
CATCAACCATTCTCCTCTACCTGAATGGTGCCCATACCGCCACAGAGATTAGCAATGGTCTGCTCCTC
CACATCATCTGCACTCACAATCAGCAATTGCCAGCCACTTGTGGTGCTCGACAACCTAGCAAGTTGAAACGCTT
TCTTACCCTCTGCAACAGTTTGGAATGACATCTCCCTGAGATTGGGAGAAGGTGCGGACTCTTGTCTTGC
ACTGGTGAACCAACAGTGACAATTGAGGAATTCCACTGTAAGCTCCAAGAAGCCACAACTTTCCCTTCGTCC
TTTTGTGATTCCATTTCTCAAGGCCAACCTGCCCTGTCTGAGCGGGAAGTGTGCACTGCGCTCGGGCGGCCAA
GCAGACCCCATCCAGTACCTGGCTCAGCACGAACACCTTCTGCTCAACACAAGCATTGCATCGCCTGCTGACTC
GTCAGAGTTGCTCATGGAGGTGCACGGAATGGGAAGAGGCCAGTCCAGAGAGGAGAGAAGAGAATAGTTTGA
TAGAGACACAATTGCTCCTGAGCCTCCTGCCAAGAGAGTATGTACCATCAGCCCTGCTCCTCGGCACAGTCTGC
TCTCACTGTGCCCTCATGAATCCCGGGGCCAATTCCATCCTACCCCTCCACCTCTTCAGCAATTACACCTTAGA
GGATATTGCAACTTCTCACCTGTATCGGGAACCCACAAGATGCTAGAGCATCGAGAAGTTCTGTATAGACACCA
CAGTCTTGGTCTAAATGGAGGCTATCAAGATGAGTTGGTAGATCATCGTTTGACAGAAAGGGAATGGGCTGATGA
ATGGAAACATCTTGACCATGCGCTGAATTGCATTATGGAATGGTAGAGAAAACAAGGCGCTCTATGGCAGTTCT
GCGGCGCTGTAGGAATCAGATCGTGAAGAACTCAACTACTGGAAAAGACGGTACAATGAAAACACAGAGCTGAG
GAAAACGGGGACCGAGTTGGTCTCCAGGCAGCACAGCCCTGGGAGTGCAGATTCTCTCAGCAATGATTCTCAGAG
AGAGTTCAACAGCAGGCCAGGTACAGGATACGTACCTGTGGAGTTTTGGAAAAAACAGAAGAAGCTGTGAATAA
GGTGAAAATTTCAGGCCATGTGAGAAGTACAGAAGGCCGTGCTGAGGCAGAGCAGAAAGCCTTTGAAGTGATTGC
AACAGAGAGAGCACGAATGGAGCAAACCATAGCGGATGTCAAGCGGCAGGCCGAGAGGATGCTTTCTCGTCAT
CAATGAGCAAGAGGAGTCCACGGAGAATGCTGGAATGTGGCCGCAAAGCCAGCGAGACATGCAGTGGCTGCAA
TATCGCGGATACTGTGGCTCTTTCTGCCAGCACAAGGACTGGGAGCGGCACCACCGCCTCTGTGGTCAGAACCT
GCATGGCCAGAGCCCCACGGCCAGGGCCGGCCGCTGCTTCTGTAGGCAGGGGCTCCTCTGCCAGGTCCGCCGA
CTGCAGCGTGCCAGCCAGCCCTCGACAAGACCTCGGCAACCACATCGCGTTCTCAACACCTGCTTCTGTGAC
AGCTATCGACACCAACGGACTCTGAGCCCCGACTCTGCTTACCCTGATGGCTGCTCAGCACACAGAGTGTG
GGCTGAGGGACTGACTGTTGGAACCCGTGCATGTAGCTGCCGGGTATCAGCAAGAAATGAATTGGAGGCAGGAA
GAGTCCAAGCCTGAATAATAACACCCACAGCCTCTCTGTGCACTTGTCTGTGCGGAGCCAGTGTGCCATTCTC
TGCACATGGGCAGCCAGCCTGAGCTGCCTCCTCATGGCTTTCTGGTTTGTTCCTCTCTCCACTGAAGCTGACT
TAGCCGGCCCTTTTCACTGTAGACCACAGCTCCCTCCCATCTCCTTGAGTCAGCAGACTGTCCAATGTGCT
CAGCCAGGCTGGAGGGCCAGGGCCAGGCAGGCTGTGGAGGAGGCCCTCGGTGAGGAGCGGCTGCCTC
ACCCCTGAATAGCTCCTTCGGCCCCATCTCCATCCTCAGCAGATGACACTGATTGGCCTCACGGGGACTTGGGTA
AGCAACAGGCGGCATTTCAGGACTCTCTCAACCTGCTGTTGAGACTTGATAAGATCTCAGAGTCCACAGGAAAG
AAGTCACTGTTGCAATAAAAGCACCCGTAGTAGCAAAACATAAACAATAAAACTTCCCCACATCAGAGATGA
TTTTGGACAAGATTTTCAACCTGTGCTGGCTACTTAGTTTGGGACCTGTTTTTTTCTCATTGATTTTGCTTG
TGCAGAAAATAGTTTCCAGCACATGGATTGATCTGAGAGAGAAATGAGGCTCAGTTGTGGATAGTCTGTTTTCTCT
GAGCATGTTGGCCAACCTAGTATCGTCAAATTATTGAGTGGATCATCTCTTGAAATGCAGAACTTCTGCCACCAC
TTGGCTATTTGCACAGTCATCTTGTCTGTGCTCTTTATCTCTCAGACCACACATCTGGAACGCTGTGGGCA
TCTTCTGCCCATGGGCTCCATTTGGCACCTGCTGAGCCACAGTTGTCTGCTGGATGTGCTGTGCAAGTTGGTAG
GACTTGCCCCACTGTCAAGGCTGGTCTCATCTGAAAAGCCCTCCTGGACCTCAAAGAATTCTTCAGACCTCAT
AGTTACAGGTCATTATATCTACTATGTTGATTTATCATCAGGCACACAACCTTCTGTTTCTCTTGTGTTATC
TGATAGCGTCCCTCCTTGAGCTCATCAGAAAGTTTTATGAAATGTGAACCATTTTGGGAAAAGCTGATCAATTT
TTCTTCTAGCTTCCATTTTCAAATGGGACATCACTCATATCCCTTTCAGAAATGTTAGGAATGCGCTCCCACAT
TCTTCCCTGTCTTTTGGGTTTTGTTTTGTTGTTGTTTTTAAACAAAAGCCTGGGCAACAGAGCAA
AACTCTGTCTCAAAAAAAAAAAAAAAAAAGGCAAAATTAAGAATTTCAAGTCCCTAATTTACTCTAACCAAGCAT
TTTCAGTCTTACAAAGAAATCTAGTGACGACACCTTTAAATGCTTAGATTTCCATTGCCTAAAGTAAGGTGTG
ACCACTGAAACAACAGCAGAGAATCATGTTTCTTGTGTTGGAACACATAAGCCCCACAGTTTCCAGTCAGCCT
AATACATGGGTATCCCCGACCCCATCTGCCTCCTTAAGCCACAGTCCCTGGTGGGGAAGTCTAAGGGGGACGGA
GTCAGTACCCCGGACAGGGCCACATTTGCATGAGACATGGCTGTCTCACAGGTCACAGAGCCATTACAACAGCTT

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FIGURE 656B

ACTAGTTTTTCATGGATTGTGGATTAAACACCTTAAGCAGGTTTTTTATTGTTATTTGTTTGTGTTGTTT
TGAGACGGGAGTTTTCTCTTGTCTCCAGGCTGGAGTGCAATCGCGCAATCTCGGCTCACGGTAACCTTCGCCT
CCCAGGTTCTGGGCGAGTCTCTGCCTCAGCCTTCTGAGTAGCTGGGATTGCAGGCATGCGCCACCACGCCAACT
GATTTTGTATTTTGTAGTGGAGACGGGGTTCTCTTGTGGTCAGGCTGGTCTCAAACCCCGACCTCAGGTGAT
CCCCCACCTTGGCCTCCCAAAGTGCCAGGATTACAGGCATGAGCCACTGTGTCCGGTCTTGAGCAGGTTTTAA
AATCTCCAGTGGCCATAAACTAGCCAGGGTAGCTCATGCTTTTACTGGTTGGAATAAGGAGCCAAAACCAACAA
AATAATATTTATTAGGGTTGGATGCCCATTTCTGTGGTTAAGGCTTAGGTTGGTGTGCAGAGCCTGGCTGCTC
TTGTGGGCTGTGGTTGCTGTGACAGTTTCGTTTTCTGAATCTTTGTAATGCTCTTCCACCCTGCTCGTGTGCCC
AGAGGCTGATCTGCAAACCTGGGCAGTATCCACACTGAAGCTCAGTTTGCAAACCTTCTGCTGTGTTAATTCTG
GTCAGTTTCACACAGAAGTCACGAGGGCCTCTGCCAGGACCTTCTATTACATFTCAAGAATCCCTTTCTGAAA
TTCTCCAACTCTCTGGTCAGGAGGAGGAGCACCATTGGGGCGGGGTAGGCAGCTAGAGGCGCAGGAGCGAATCCA
GGTTCTTGTGGTGGTTCCAGCCTCTGCTGACAGCACCTCAGCTACCAGGTGGGGAGTGGAAATTCAGCCTGCTT
AGAGGACTGACCTCTACAGTTTCAATTTGCAGTGACATAAAAGGCAAAGAGGAGCTGGCATGGTGGTACAGAAGG
TATCAGTCAAGCGCAGGCTCTTCAGAAACCTAGAACTAAAAAGAGATGCAACATGTGACTGGCCATCAGCCAGA
CATGTCTAGGGTGAGACCAGTGTCTCAGCACCACCCGCCAAGGAACACTGATGAGTTGTGGGACATTATGGTCGGC
CAAGTGAGGAATGATTGCAGGGACCAGAGAAGACCAAGATGCCAGATGTCCCAGAGTTTCTTGAGGGCTGGGT
TTCACGTCTTTGCTTGTCTTTTGTCCCACTTGCCTGCACCGTGCCTGACTCATCCAGTGGGGAAGGTGACTC
AAGAAGTTGTTTAAAGCCTAGGCCTAGGCAGTCCACTTCGGGAGGTGGGGGCACTCCACACTGGGGGGCCCTGCAG
CTCCAGGGCTGGTGTCTTAGCAGATCCGCTCAGGCACGGTTGGGTGACCGTGGGGTCACCGATTGCGTAGATTAT
TTCTAGGGCAGTGTGGGTAGAAATGTCTGTCTGGAACAGGACACATCTGCCACCACAAGTCCACACCTGGC
CTTGGCTGCTGCCCGCTCTCTGCAGCGTGGATTTCCTTTGCCCATTTGGGCCAGAAGGTACCAGGAGTTTCATCA
CTGCTTAGTGTCAACTTGACATCTTCAGCTTCAGACAGAAAACCCATGCTTTACTTTGTACAGCCCTGTCCCAG
AGTTAGTAAGCCTCGGCTTGTACCTGCTTGCAAAGGGTATAGACATCATTCTGGGTAGTTCTAGAGGATATCGC
AACAAGTGCCTTTGAAGGTTACACACAGCTGGAATTGTACGGTAGTGAGCTCTTCAAAATGAAAACAGAATGACC
GGATGGCCATCTGTCTTGAAACTGTAGAATTGAATAAATCACTGAAAATAGAACACTTCTTGAGGGCTTTCTTC
AGAAGTGAAGTGAACAAAGGTTTCCAGGCTCCCAGGTCAGTAGACCAAACCAACTTCCTTAGATTTTTTTTTTT
AAGCTGTTTGCAGAAAACCTGGGTGGTAGCGTGTCTGAACCAAACGGAAGAATAGCCAGCGGAGCATGGACTGTT
CAGCACGGGCGAGATGGCCAGCTGTGAGAGCAGCCCTGCCAGATTGCGGTGGGGGCTGTGCCAGCGGCTCCGC
AGGGCCCTTCCAACCTCTGGAGTGTCTGTAGTTCTTGTGAAACCAAACGTTGACTACCTGCCTCTTCTCGGGC
ATCGACGTGCTCATTTCCAAAGATGATGGTGCAGGTGACCTTTTCATCGTGAGCTAAGAGAAGGTTAGGAGGCC
TGAGGGGCGGGCCTTGTGTCCCTCCTCCCCCTCCACAGCCCTGAGGTGGAGCTTCCCTCACAGACCCCATCTG
GTGAGCCTACGGCTGCCCAGTGTACACTCAGTGATGCTTATACCAAATAGGGCATGTGCGCTGGTGTCTGTGG
GGACAGCCCCATCCCTACCTTGAGTGGCAGAGAAGCAGCAATAAGCATTAGGCGAATGATTGAAAGGGCTGCT
GCGCCAAGAGGCCTTCAGTCCCTTAACGTGGCTTTCAACTTCTGACGAGGCTACAAAGGCTCCGCTCACAAA
AGAAAGCCAATAATGTAAATAAATAGAAAACGAAGCCTCCACGCGTGGTTTTTAAAGGGGGATGATGAATGTGAC
ACCACCCACAGAATGCATTAGAACTGTGTTTTCTGTGCTTTGTCAATTTTACTCTGATAGGAATTTTGTACCT
AACTCTGTGCATAACTTATTTAATGTACTGTATAAATGAACCAAACTGTAAATATGTATTTAGTTTGTCTAC
TTAAAGTAGTCAATAAAAAGGCTATATTCCT

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FIGURE 657

MAKESGISLKEIQVLARQWKVGPEKRVPPAMPGSPVEVKIQSRSSPPTMPPLPPINPGGPRPVSFPTALSNGINH
SPPTLNGAPSPPPQRFNSNGPASSTSSALTNQQLPATCGARQLSKLKRFLTTLQQFGNDISPEIGEKVRTLVLALVN
STVTIEEFHCKLQEATNFPLRPFVIPFLKANLPLLQRELLHCARAAKQTPSQYLAQHEHLLNTSIASPADSSEL
LMEVHGNGKRPSPERREENSFDRDTIAPEPPAKRVCTISPAPRHSPALTVPLMNPGGQFHPTPPPLQHYTLEDIA
TSHLYREPKNMLEHREVRDRHSLGLNGGYQDELVDHRLTEREWADEWKHLDHALNCIMEMVEKTRRSMAVLRRC
QESDREELNYWKRRYNENTELRKTGTTELVSQRHSPGSADSLNDSQREFNSRPGTGYVPVEFWKKTEEAVNKVKI
QAMSEVQKAVAEAEQKA FEVIATERARMEQTIADVQRQAEDAF LVINEQEESTENCWNCGRKASETCSGCNIAR
YCGSFCQHKDWERHHRLCGQNLHGQSPHGQGRPLLPVGRGSSARSADCSVPSPALDKTSATTSSSTPASVTAID
TNGL

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FIGURE 658

GAATTCGGCCAAAGAGGCCTATGCTTCTCTGAAGACTTGCGAGCAAGGCTTGCTGAGGCTCACAGAAGATAGCCCC
AGTGTTTTGGAGTGGTTTTGAATGTGATTCTGAGATCAGACTGACTGAGCTGGAATCCTGGCTTTATATCTTACC
AGCTACACAACCTTGGAGTCTTAGAAAATTTTTCTTTTCAATAAGCAGTCATCCTTACTTTCCCTCAAGATGACA
AACAGTTCGTTCTTCTGCCCAGTTTATAAAGATCTGGAGCCATTACGTAATTTTTTTTATTTAGTTTTCTTGT
GGAATTATTGGAAGTTGTTTTGCAACCTGGGCTTTTATACAGAAGAATACGAATCACAGGTGTGTGAGCATCTAC
TTAATTAATTTGCTTACAGCCGATTTCCTGCTTACTCTGGCATTACCAGTGAAAATTGTTGTTGACTTGGGTGTG
GCACCTTGGAAGCTGAAGATATTCCACTGCCAAGTAACAGCCTGCCTCATCTATATCAATATGTATTTATCAATT
ATCTTCTTAGCATTGTGTCAGCATTGACCGCTGTCTTCAGCTGACACACAGCTGCAAGATCTACCGAATACAAGAA
CCCGGATTTGCCAAAATGATATCAACCGTTGTGTGGCTAATGGTCCTTCTTATAATGGTGCCAAATATGATGATT
CCCATCAAAGACATCAAGGAAAAGTCAAATGTGGGTTGTATGGAGTTAAAAAGGAATTTGGAAGAAATTGGCAT
TTGCTGACAAATTCATATGTGTAGCAATATTTTTAAATTTCTCAGCCATCATTTTAATATCCAATTGCCTTGTA
ATTCGACAGCTCTACAGAAACAAAGATAATGAAAATTACCCAAATGTGAAAAAGGCTCTCATCAACATACTTTTA
GTGACCACGGGCTACATCATATGCTTTGTTTCCTTACCACATTGTCCGAATCCCGTATACCCTCAGCCAGACAGAA
GTCATAACTGATTGCTCAACCAGGATTTCACTCTTCAAAGCCAAAGAGGCTACACTGCTCCTGGCTGTGTGGAAC
CTGTGCTTTGATCCTATCCTGTACTATCACCTCTCAAAGCATTCCGCTCAAAGGTCACTGAGACTTTTGCCTCA
CCTAAAGAGACCAAGGCTCAGAAAGAAAAATTAAGATGTGAAAATAATGCATATAAGACAGGATTTTTGTGCTA
CCAATTCTGGCCTTACTGGACCATAAAGTTAATTATAGCTTTGAAAGATAAAAAAAAAAAAAAGCGGCCGC

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FIGURE 659

MTNSSFFCPVYKDLEPFTYFFYLVFLVGGIIGSCFATWAFIQKNTNHRCSVSIYLINLLTADFLLTALPVKIVVDL
GVAPWKLKIFHCQVTACLIYINMYLSIIFLAFVSDRCLQLTHSCKIYRIQEPGFAKMISTVVWLMVLLIMVPM
MIPKDIKEKSNVGCMEFKKEFGRNWHLLTNFICVAIFLNFSAILISNCLVIRQLYRNKDNENYPNVKKALINI
LLVTGYYIICFVPYHIVRIPYTLSQTEVITDCSTRISLFKAKEATLLAVSNLCFDPILYYHLSKAFRSKVTETF
ASPKETKAQKEKLRCECENNA

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FIGURE 660A

TTGAGGTGCATTGAAATGTTCCAAGCTGTTACTTACCTTAACATGTTCTTGAGGTACCATGGCATGGATTAAAAAG
GAAATTTGGTAAGTGGCCTCCACTTAAACGACTTACTAGGGAAGCTATGTGAAATTATTTAAAAGGGCGAGGGGA
TCAAATAGTACTTATCCTTCATGCAAAAGTTGTACAGAAGTCATATGGAATGAAAAAGGTTTTTGGCCCTCCCC
TTGTGTATATCTTATGGGCAGTGGATGGAAGAAAATAAAATTACAAATGAAATGCGATGGTTGTTCTGAACAAGG
CTCTCATCCATGTGCATTTATTGGGATAGGAAATAGTGACCAAGAAATGCAGCAGCTAAACTTGAAGGAAAGAA
CTATTGCACAGCCAAAACATTGTACATATCTGATTACAGACAAGCAAAAGCACTTCATGTTGCTGTAAAGGTGTT
CTATGGCAACGGTGATGACATTGGTGTGTTCTCAGCAAGTCGTCCAAACCTTCCAAAAAGAGCAGTCATTGAA
AAATGCTGACTTATGCATTGGCTCAGGAACAAAGGTGGCTCTGTTTAATCGACTACGATCCCAGACAGTTAGTAC
CAGATACTTGATGTAGAAGGAGGGAATTTTCATGCCAGTTCAACAGCAGTGGGGAGCATTTACATTATTCTTGGA
TGATGTATGGATCAGAAGGAGAAGAATTCACAGTCAGAGATGGCTACATTCATTATGGACAAACAGTCAAGCTTGT
GTGCTCAGTTACTGGCATGGCACTCCCAAGATTGATAATTAGGAAAGTTGATAAGCAGACCACATTATTGGATGC
AGATGATCCTGTGTCACTCCATAAATGTGCATTTGACCTTGAGGATACAGAAAGAATGTACTTATGCCCTTTC
TCAAGAAAGAATAAATTCAATTCAGGCCACTCCATGCCCAACAGAACCAATAAAGAGATGATAAATGATGGTGC
TTCTGGGCAATCATTAGCACACATAAGGCCGAAGTATACATTTTATGAGAGAATGGGCCCTGCTTGGCCCTGGT
CATGCCATGCTGTCTGATAGAGAGCCTTAAGTTGAATGGCGGTGGGGACGAAGCAATGCTTGAACCTTACAGGACA
GAATTTCACTCCAAATTTACGAGTGTGGTTTGGGGATGTAGAAGCTGAAACTATGTACAGGTGTGGAGAGAGTAT
GCTCCGTGTTGTCCAGACGTTCTGCATTCTGAGAAGGTTGGAGATAGTTCCAGCAACCAAGTCCAGGTTTCAGT
AACTTTGGTCCGAAATGATGGAATCATATATTCCACCAGCCTTACCTTTACCTACACACCAGAAGCAGGGCCGCG
GCCACATTGCAGTGTAGCAGGCGCAATCCTTAAGGCCAGTTCAAGCCACGTGCCCCCTAATGAATTAACACAAA
CAGCGATGGAAGTTACACAAATGCCAGCACAAATTCACCAAGTGTACATCATCTACACCAACAGTGGTATCCTG
AACTACCGTCTTTTTGCTAAGACTCAAACGGCTTGAGTGCAGCAAAAAGTTGACAAAAAAGGAAAAAAAATGAA
CAGTCTTTTTGTGGTTTATTGGGAACTTTTCATACCAGGTGATACTATTCTAAAACCCCGTTGCTCCCTGCAAG
TGCTGATTTGAAATGCAGAAGCCACAGTAAAAAAGGAAAAAAGGAAAAAAGGAAAAAAGGAAAAAAGGAAAAA
ATAAATATTGAAATCAAGTTTTTCAGCTGTTTTGTTGGTTGGTTGGTTGGTTGGTTGGTTGGTTGGTTGGTTGG
GACAAGAAGTAAATAATGTGGCTGGAATACAAGTTGAACAACTAGAAGACACAAATCTAACATAGTTTTTATGG
ACCAAGGAACCTGTATATTGTATAAGCTTTTAGTAAAAGGTACATTTTACCATACCTTTTTTTATATCACGGTAT
TATAGTACACCTTGTTACCAATAGGTTGTTCTCTTCCCCACCTCCTTTTGAGCTTTGCTCTAAAATACATTCTGG
TTCCAAGCCTGACCATCCTTGTTTAATCTATCATACTCTTCCAGGTTTTTTTTTTTGGTCTAAGGCTGGAACCTT
TTCTTTTTTTTTCAGCTGAAGTCTTATGACTTTTTTCATGAGTCAAAATTGTTTGGATTTCACGAAGTCAAATCT
TGCAAAGGCCCTGCATATTTTTTTTAAGATTATATGAAGTCTGTGCAAAAAGCTTTAAAAAATTGCCTCTGCCTTG
CCTGCATACATGCAATGTATGTAACCTTAGTCTCTCTCTCAGACACTGTTGGGTAGTTATTTCTGTGTTTTCTTT
TTTTAAAAAATATGGACTTATTGTGGTTTATCTGAGAGGTTCTAACATTACATGCAATTTGGTGTGGCATT
TAGCTATTATGAGTTATTGGCGCAACTTGTTTGATATTTGAAGTGTCTCTCCCTTTTCCCATGACGTAATACA
TAGGTGTGTTCCAGGATTTGTTCCAGGTTTTTCCCCCCTCCTAATCTTGATATAACTTGTATTTGTGTAAGTT
AAACATTTTATTGAACTTGAATGTTCCAGTGATTTCAATCAGCAGGGTATTTCTGCCTTGTGGCAAGTAG
CAAAAAATATGGGAAGTATTGTCTACAGTTGTTAGATGGTGCCCTTATTGGTAGAATCAGGAAATGTCCGCA
AAAGCATGTTTTATTATCTTTACTTTTTTGGGGGGTGGAGGGGGTAGCCTAGCCAGACATCATGTAATCTTAAA
ACATAAGATGCTTTTATTAGATGATCAACTAAAAATAGCTGGAAGACAGTACTTTAGAAACAAATAGTTAGTAA
GATATATAATGCAAATGTAACCTTATGTTTTTCTCTGCCTTTTTTTTTTGTTTTTTTCTTTTTTCT
AGTACTGAGCATCTCCACAAATGCTCCTACTCAGAAAATGTTTCTTTCTTTTCAGTTGAGATTTGGTGCATTCA
GGGTGTAGGTTGGCCTTGCTTGCTAACCCGCCGGTTTTACCGTGCTTTATTCCTGAACCTTGTATGCCTTTG
TTTGGTCTCTCTGAAATTGCAGCAGACTCATTGGGCTACATTTAGTACAGGAACCACGTGTGTAATGTATACAA
CACAGTCAGTAATAACATCATCCCTCTTAGAGTAAAACTACCTCTAGATTGTGTAAGCTTTTTACTGTCCATAA
AACAGGAGCCACAGTACCTTATGAATGCAAACTGTAACCTTCTACAGTGTTTCCCAACAGAACATTGTCTTTCT
GGTGTCTGGGCTGTTTTTGAAGGTTTCCATTAATAGACTTTTTAGAAATTATTATTAGTAGCATTTTTTTCC
AGCTTTGCGTCTTCATCACTCAAGTGTGAGTATGCACTGTAAATATCTTCTAACATCTTTAAATCGCC
TTTTCTCAGTTTTCAAGGGGAAGGTCAATTTGTAAAGCACGTTAGGTGGTTAAATCAGTTATTGCGGTTTTCTCT
TACAGCAAGCCTTTTTAATCACCCCGAGGCTGCATTTATTCTATATCGCCTTTTTTCTTCAAATCTGCTCCAAT

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FIGURE 660B

CATCCACTTCTCTCTTATAAGCTATTTCCTGCCTCACACCTAAATCTGTTTCAGTGATCAAGGGCAGAACTCATTG
TGGCCTTATCTTTCTTTGTTGTAATTGTTCACTGTCTCTTTCTTACAGACCACTTATTCTGAGTAGTAGTTATTC
CTCCCTATGGAGTCATGGCAGGAATCATTACACAGTGCTTTTGTTTCAGAGCATGGACATGTTCCAGGTGCTGCTT
TGCTTTAACGGCCACAAGTTTCTCCACTTCTCAGGTTTGGTATTTAGTAAGGAATCAATTAAATTAACCAATAA
CAAAAGAGATACTTTTGAAGAACAACTATTCTTTACCCATTTTGTAGCTCAAAAATAATTTTCAAGTTCATGA
CCTTATTAAAAATGAACCTTGTTGTTTTTTAACAAACGTCTATTTTATTTTGATAGTTTCTTTCCGAAGATAATTGA
AATATTATACTGTAACCCTTTCTTTTCTTTTTTGAAGTCCAAGAATGTACTTATACAGGATTTTCCCCACC
TATTTTGGCCATTCTCATACCACAGACAAAAGAGTGAATGATTGTCATTGTAGCTTATTGTTTATCAGTAGTTC
TTTTGTAGCTGCTTACATTTTTTCTTTTCATGGTTTGTGAATCATTTTCAGTATGTAATTTATAGGAACCTTGTCCT
CTGGTATAGTAGACTGTGTGCCCTCCTCCAGGATGGCATTATTAGACATGCTGGTCATTTACCCTCAGAAAGACT
CTCTTATAGAATGGTGAGTGCTTCAGTTATAGTATGTTTGAATTTTAAAAAATTCCTGTTTAGAATGTATCTATG
CTCTCATGACTATGCAGTTTCTAACATACACATAGAAGCTGAGTCTCTGATCCAATATGTTTTATTGTTCCAT
TAATTTATCACATAGATTGGGAAGGCAAGCTAAAAGCCTTAAAAATGCCCTTTATATTTTGAGTGATTTTCAGCGT
TGAACACAGTATACTATCTAAATTTGCTGCTCACTTTCTTAACTGTTGCAATTAAAGGCATGTTTATACATGAC
TAATCGTGAAATGTTTGTCACTCTTACTGCACAGACTTATCTGCAATCAAACCTGGTTAGTTTTTTGTTTTGTTT
TGTTTTATTGTTTTTAATGAATCTGGTACCATCTGTGCTTTCACAAAAAATCCAATGCCATTTTTGAGAACTA
ACCTAACAGTCATGCTAACCCAGAAAATCCACTGGGGAGGAGGTTCCCTTTGAAACAAAATGCTGTTTCAGTTAGTAA
CCAAGTTACTTTGATTGCAAAAGCAGCTGTGTTTCTGATAAGTACTGAACAAATGTGTGTAATTTCTGTGCCAG
ACTTATGACTTTGTTTTCAAGCACTGTAATGTGGGATGGATGGTTAGAAACAATAATATATAGGGTTTCTGTTAA
CCCTTTCAGGACTCAACTGTATCTCCTTTTGTAAATTTCCCTGTGTTGTGATAAATTGTTTGCCAGCATTACG
TACTGTGTTGGTGCAGATGAGGTTTATATCTCATTTTAGCTTATTTCTTGTACCTTTCAGCATGCCTACGCATT
AGTCCTTAAGGGGTTTATTTTACAACTGTGCGCCTGAAGTTTATTAGCAATAAGATAGAAAATGAGCAAGTTTA
TACCATAATTTTGAGAAAAAAGAATCTGCTCAGTTCATATTTTCATCCGTGAAAAACTTGCAATACGAGCAGTT
TCAAGGAATAAATAAAAAGGAAATGAAACCATTTGT

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FIGURE 661

MSGWKKIKLQMKDGCSEQGSHPCAFIGIGNSDQEMQQLNLEGKNYCTAKTLYISDSKQKHFM LSVKVIFYGNG
DDIGVFLSKSSKPSKKKQSLKNADLCIGSGTKVALFNRLRSQTVSTRYLHVEGGNFHASSQQWGAF TFLDDDG S
EGEFTVRDGYIHYGQTVKLVCSVTGMALPRLIIRKVDKQTTLDDADDVPSQLHKCAF DLEDTERMYLCLSQERI
IQFQATPCPTEPNKEMINDGASWAIISTHKAKYTFYERMGPVLALVMPMPVVESLKLNGGGDEAMLELTGQNFTP
NLRVWFGDVEAETMYRCGESMLRVVPDVLHSEKVGDSQQPVQVSVTLVRNDGIIYSTSLTFTYTPEAGPRPHCS
VAGAILKASSSHVPPNELNTNSDGSYTNASTNSTSVTSSTPTVVS

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FIGURE 662

GGGCGGCGGTTCGGCAGCAAGGCGGCGGTGCGCCGCCGAGCTGCAGTGACATGTCCAGCATGAATCCCGAATATG
ATTATTTATTCAAGTTACTTCTGATTGGCGACTCAGGGGTGGAAAGTCTGCCTTCTTCTTAGGTTTGAGATG
ATACATATACAGAAAGCTACATCAGCACAATTGGTGTGGATTTCAAAATAAGAACTATAGAGTTAGACGGGAAAA
CAATCAAGCTTCAAATATGGGACACAGCAGGCCAGGAAAGATTTGAACAATCACCTCCAGTTATTACAGAGGAG
CCCATGGCATCATAGTTGTGTATGATGTGACAGATCAGGAGTCCTTCAATAATGTTAAACAGTGGCTGCAGGAAA
TAGATCGTTATGCCAGTGAAAATGTCAACAAATTGTTGGTAGGGAACAAATGTGATCTGACCACAAAGAAAGTAG
TAGACTACACAACAGCGAAGGAATTTGCTGATTCCCTTGAATTCCGTTTTTGGAAACCAGTGCTAAGAATGCAA
CGAACGTAGAACAGTCTTTCATGACGATGGCAGCTGAGATTAAAAAGCGAATGGGTCCCGGAGCAACAGCTGGTG
GTGCTGAGAAGTCCAATGTAAAATTCAGAGCACTCCAGTCAAGCAGTCAGGTGGAGGTTGCTGCTTAAATTGCC
TCCATCCTTTTCTCACAGCAATGAATTTGCAATCTGAACCCAAGTGAA

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FIGURE 663

MSSMNPEYDYLFLKLLIGDSGVGKSCLLLRFADDTYTESYISTIGVDFKIRTIELDGKTIKLQIWDTAGQERFRT
ITSSYYRGAHGIIIVVDVTDQESFNNVKQWLQEIDRYASENVNKL LVGNKCDLTTKKVVDYTTAKEFADSLGIPF
LETSAKNATNVEQSFMTMAAEIKKRMGPGATAGGAEKSNVKIQSTPVKQSGGGCC

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FIGURE 664

TCCCGTGGAGCAGAGGGGGCAAAGTGGCAGGAACCTCTTAAAGGGCGAGACGGGCGGCGACCGAGAACGCGGTCCG
CCCCGTCCCCGCCGCCAGCCAGCCAGAGAAGAGTTTAGTGACTGAGGCCGAAAATTCACAGCACCAACAGAAGGA
AGAGGGTGAGGAAGCCATAAACTCAGGCCAACAGAACCTCAGCAGGAGGAATCTTGTCAAACAGCAGCTGAAGG
AGATAATTGGTGTGAACACAAGGTGAAAGCTTCTAATGGAGACACTCCTACACATGAAGACTTGACCAAGAACAA
GGAGCGGACATCAGAAAGCAGAGGACTTTACGACTATTCTCCTCGTTTTCTCAAAGGCCCAAATCTCAGGTGTC
CGAGGAAGAAGGCAAAGAAGTAGAGTCAGATAAAGAAAAAGGTGAAGGAGGTCAGAAAGAGATAGAATTTGGAAC
CAGTCTTGATGAAGAGATCATTTTAAAGGCCCAATTGCAGCTCCTGAACCGGAACCTCAAACAGACCCATCTTT
GGATCTTCATTCAATTAAGCAGTGCAGAAACACAGCCTCACCATTACAATTAAGAATTATTTTAGAGTCTTCTTA
TTTCTGAAGCATGTGAATATTATCTCGATCGTTAAAAGTCTGCTCAGGAAGAACTCAGAGAAGATCCAGATTCT
GAAATTAAGGAAGGAGAAGGACTTGAAGAGTGCTCCAAAATAGAAGTAAAAGAAGAAAGCCCTCAATCAAAAGCA
GAAACAGAATTAAGGCTTCCCAAAAACCAATCAGAAAACACAGGAACATGCACACTGCAAGGTTTCTTTGTTGGAT
GACACAGTTTATGAATGTGTGTGGAGAAACATGCTAAGGGACAAGATTGCTTAAACGAGTATGTGAGCATCTC
AATCTTTTGAAGAAGACTATTTTGGTCTAGCCATTTGGGATAACGCAACCTCTAAGACATGGCTGGATTCCGCC
AAAGAAATAAAAAAGCAGGTTCTGTGGTGTCCCTTGGAAATTTACATTTAATGTAAAGTTTTATCCACCTGACCCA
GCACAGTTAACAGAAGACATAACAAGATATTATTTATGTCTTCAGCTTCGGCAGGACATAGTGCAGGACGTCGTG
CCCTGTTCTTTGCAACCTTAGCATTATTAGGTTCTTACACCATCCAGTCTGAACCTGGGAGACTACGACCCAGAA
CTCCATGGCGTGGAATTATGTTAGTGATTTTAACTGGCCCCGAATCAGACCAAGGAACCTTGAAGAGAAGGTCATG
GAAGTGCATAAGTCATACAGGTCCATGACTCCAGCTCAGGCTGACTTGGAGTTTCTTGAGAATGCCAAAAAGTTG
TCTATGTATGGAGTTGATCTTCATAAAGCAAAGGACTTGGAAAGGAGTAGATATCATCCTAGGTGTCTGCTCTAGT
GGCCTTCTGGTTTACAAAGATAAGCTGAGAATTAACCGCTTCCCTTGGCCCCAAGTGCTGAAGATTTCTTATAAA
CGTAGTAGCTTTTTCATCAAGATTTCGGCCTGGAGAGCAAGAGCAGTATGAAAGTACCATCGGATTCAAACCTCCC
AGTTACCGAGCAGCTAAGAAATTTATGGAAAGTCTGTGTAGAACATCACACGTTTTTCAGATTGACATCTACAGAC
ACCATTCCCAAAAGCAAATTTCTTGCCTAGGATCCAAATTTGATACAGTGCCCGGACTCAAGCTCAGACCAGG
CAAGCTAGTGCTCTAATTGACAGGCCTGCCCCACACTTCGAGCGTACAGCAAGTAAACGGGCGTCCCGGAGCCTC
GATGGAGCAGCAGCTGTGATTCGGCAGACCGAAGTCTCGGCCCACTTCTGCACCTGCCATTACTCAGGGTCAG
GTTGCAGAAGGTGGCGTCTAGATGCCTCTGTCTAAAAAACAGTGGTCCCTAAAGCACAGAAGGAAACAGTGAAG
GCTGAAGTGAAAAAGGAAGACGAGCCACCTGAGCAAGCTGAGCCAGAGCCCACAGAAGCATGGAAGAAAAAGAGA
GAAAGACTAGATGGTGAAACATTTATATCAGACATAGCAATTTAATGTTGGAGGATTTAGACAAGAGTCAAGAG
GAGATCAAAAAACATCATGCCAGCATCAGTGAGCTGAAAAAGAACTTCATGGAGTCTGTACCAGAACCACGGCCT
AGTGAATGGGATAAACGCTTATCCACTCACTACCCCTTCCGAACTCTTAACATCAATGGGCAAATCCCCACAGGA
GAAGGACCTCCCTTGGTGAAGACACAACTGTCAACATCTCAGATAATGCCAATGCTGTGAAAAGTGAAATCCCA
ACCAAAGACGTCCCTATTGTCCACACTGAGACCAAGACCATCACTTATGAGGCTGCCAGACTGTAAAAGGTGGG
ATTTAGAGACACGTATTGAAAAGAGAATTGTGATCACAGGAGATGCTGATATTGACCATGATCAGGTCCTTGTA
CAAGCCATCAAGGAGGCAAAGGAGCAGCACCCAGACATGTCAGTGACCAAGGTGGTCCGTCACCAGGAGACCGAG
ATTGCTGATGAGTGAGCTCAGGAACCTAACCTACCCCAACTCTGCCCTTCTCCCATCCAAGAGAAACCACGAAAT
GATAAAGAAGCTAACCTGCCATAGTCAGACTTCAGACTTTCAAGATTATTCTAAATCACCAGAAAATTAATTTCA
GTTTCTATTGGGAGTTTATACCAAGAGATTCTTCTAGATCTCATTGATCCTTTTGAAGAGCTTTTCTATATTAG
GATATCAGAATTGTTCAACTTTTCACTCTATAGACTGTTTTAAGAGTTTTTGGGGGGTTTTTAAATGGGTGGTTT
TAACCCCTTCAGCCTAG

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FIGURE 665

MHCKVSLDDTVYECVVEKHAKGQDLLKRVCEHLNLL EEDYFGLAIWDNATSKTWLDSAKEIKKQVRGVPWNFTF
NVKFYPPDPAQLTEDITRYYLCLQLRQDIVAGRLPCS FATLALLGSYTIQSELGDYDPELHGVDYVSDFKLAPNQ
TKELEEKVME LHKSYSRSMTPAQADLEFLENAKKLSMYGVDLHKAKDLEGVDIILGVCSSGLLVYKDKLRINRFPW
PKVLKISYKRSSF I KIRPGEQEQYESTIGFKLPSYRAAKKLWKVCVEHHTFFRLTSTD TIPKSKFLALGSKFRY
SGRTQAQTRQASALIDRPAPHFERTASKRASRLDGAAAVDSADRSPRPTSAPAITQGQVAEGGVLDASAKKTVV
PKAQKETVKA EVKKEDEPPEQAEPEPTEAWKKKRERLDGENIYIRHSNLMLEDLDKSQEEIKKHASISELKKNF
MESVPEPRPSEWDKRLSTHSPFRTLNINGQIPTGEGPPLVKTQTVTISDNANAVKSEIPTKDVPIVHTETKTITY
EAAQTVKGGISETRIEKRIVITGDADIDHDQVLVQAIKEAKEQHPDMSVTKVVVHQETEIAD E

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FIGURE 666

CTGTATTGTGGTTCCCTGGAACACTTTAGAGGCTTGTGATTCTACTGCTTCTTATTCACACTATAATACATGTCTC
ACCAATAGATGATTCAAGAACATCATTTAAATACACAATTTTTCATTCTCTATTTTTGCTAAATTTCTTCATACT
CAACTTTTCAGATTCTTTAATCTCCAGCTCAGCTTCAACAATTCAACGCTGTTCTTTCTGAAAAAGTACACATCGT
GCCTTCTCTACTTCGCTCTTGGAACATAATTTCTCATGGCAGCTTTTACTAAACTGAGTATTGAGCCAGCATTTA
CTCCAGGACCCAACATAGAACTCCAGAAAGACTCTGACTGCTGTTCTTGCCAAGAAAAATGGGTTGGGTACCGGT
GCAACTGTTACTTCATTTCCAGTGAACAGAAAACCTTGAACGAAAGTCGGCATCTCTGTGCTTCTCAGAAATCCA
GCCTGCTTCAGCTTCAAAACACAGATGAACTGGATTTTATGAGCTCCAGTCAACAATTTTACTGGATTGGACTCT
CTTACAGTGAGGAGCACACCGCTGGTTGTGGGAGAATGGCTCTGCACTCTCCAGTATCTATTTCCATCATTTG
AAACTTTTAATACAAAGAACTGCATAGCGTATAATCCAAATGGAATGCTTTAGATGAATCCTGTGAAGATAAAA
ATCGTTATATCTGTAAGCAACAGCTCATTTAAATGTTTCTTGGGCGAGAGAAGGTGGAGAGTAAAGACCCAACAT
TACTAACAATGATACAGTTGCATGTTATATTATTACTAATTGTCTACTTCTGGAGTCTATAAAATGTTTTTAAAC
AGTGTCAATATACAATTGTCATGTATGTGAAACAATGTGTTTTAAATTTGATGAAATTCGTTACCTACATTTGAG
AATTATAAAATTAACATAAAGAATTTTGTATTTTCATTTAATGTATATAATGTTAAATTCATGTAGTTTTATTA
CACATTTATGTAATTTTATTACATTCTTGCTAATTCTCAGCAGAAATTTAAATAAGATTTAATTCACATCAAAT
AAAATTTAGAAAATAAAATTTAACTCACACTGCCCAGGCTGGAGCATAGTGGCAAGATCATAGCTCATTGCAAGC
TCAAGTGATCCTCCTGACTCAGCCTCCCAAGTAGCTAGGACTGCAGGCACCATGTCACTATGCCCCGACTAATTTT
TAATTTTTAATTTTTTGTCAAGACAAGGTCTTGCTATGTTGCCAGGCTGGTCTTGAACCTCCTGGCCTCAA

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FIGURE 667

MAAFTKLSIEPAFTPGPNIELQKSDCCSCQEKWVGYRCNCYFISSEQKTWNEsrhlcASQKSSLLQLQNTDELD
FMSSSQFYWIGLSYSEEHTAWLWENGSA LSQYLFPSFETFNtkNCIAYNPNGNALDESCEDKNRYICKQQLI

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FIGURE 668

GACCGAAGCAAGAGCTGGTTTCAGGTGGCAGCCACAGCAGCCTCAGGGACCTCAGCAACTATGGCCTCCTGCCAG
ACTCTGATAATAGCTGGGTGCTTGCTGGCTCCGAGAGCCTGCCAGTGGAGACACTGGGCCCCGCATCCAGGATGG
ACCCAGAATCTGAGAGAGCCCTGCAGGCCCTCACAGCCCTCCAAGACAGATGGGAAAGAATTAGCTGGGACCA
TGGATGGAGAAGGGACGCTCTTCCAGACTGAAAGCCCTCAGTCTGGCAGCATTCTAACAGAGGAGACTGAGGTCA
AGGGCACCCCTGGAAGGTGATGTTTGTGGTGTGGAGCCTCCTGGCCCAGGAGACACAGTAGTCCAGGGAGACCTGC
AGGAGACCCACCGTGGTGACAGGCCTGGGACCAGACACAGGACCTGGAAGGCCAGAGCCCTCCACAGAGCCTGC
CTTCAACCCCCAAAGCAGCTTGGATCAGGGAGGAGGGCCGCTGCTCCAGCAGTGACGATGACACCGACGTGGACA
TGGAGGGTCTGCGGAGACGGCGGGGCCGGGAGGCCGCCACCTCAGCCCATGGTGGCCCTGGCTGTGGAGAACC
AGGCTGGGGGTGAGGGTGCAGGCGGGGAGCTGGGCATCTCCCTCAACATGTGCCTCCTTGGGGCCCTGGTTCTGC
TTGGCTGGGGGTCTCTCTTCTCAGGTGGCCTCTCAGAGTCTGAGACTGGGCCCATGGAGGAAGTGGAGCGGC
AGGTCTCCAGACCCCCGAGGTGCTGGAAGCTGTGGGGACAGGCAGGATGGGCTAAGGGAACAGCTGCAGGCC
CAGTGCCTCCTGACAGTGTCCCCAGCCTGCAAAACATGGGTCTTCTGCTGGACAAGCTGGCCAAGGAGAACCAGG
ACATCCGGCTGCTGCAGGCCAGCTGCAGGCCCAAAGGAAGAGCTTCAGAGCCTGATGCACAGCCCAAAGGGC
TAGAGGAGGAGAATGCCAGCTCCGGGGGGCTCTGCAGCAGGGCGAAGCCTCCAGCGGGCTCTGGAGTCAGAGC
TGCAGCAGCTGCGGGCCCGCTCCAGGGGCTGGAGGCCGACTGTGTCCGGGGCCAGATGGGGTGTGCCTCAGTG
GGGGTAGAGGCCACAGGGTGACAAGGCCATCAGGGAGCAAGGCCCCAGGGAGCAGGAGCCAGAACTCAGCTTCC
TGAAGCAGAAGGAACAGCTGGAGGCTGAGGCACAGGCATTAAGGCAAGAGTTAGAGAGGCAGCGACGGCTGCTGG
GGTCTGTACAGCAGGATCTGGAGAGGAGCTTGAGGATGCCAGCCGCGGGGACCCAGCTCATGCTGGCTTGGCTG
AGCTGGGCCACAGATTGGCCCAGAACTGCAGGGCCTGGAGAACTGGGGCCAGGACCCTGGGGTCTCTGCCAATG
CCTCAAAGGCCTGGCACCAGAAGTCCCCTCCAGAATTCTAGGGAGTGGAGTGGAAAGGAAAAGTGGTGGGATG
GGCAGAGAGACCCGAAGGCTGAGCACTGGAAACATAAGAAGGAAGAATCTGGCCGGGAAAGGAAGAAGAACTGGG
GAGGTGAGGAGACAGGGAGCCAGCAGGAAGGTGGAAGGAGGGCAGGCCAAGGGTGGAGGAGTCGGGGAGCAAGA
AGGAGGGCAAGCGACAGGGCCGAAGGAACCCCCAAGGAAAAGTGGTAGCTTCCACTCCTCTGGAGAAAAGCAGA
AGCAACCTCGGTGGAGGGAAGGGACTAAGGACAGCCATGACCCCTGCCATCCTGGGCAGAGCTGTTGAGGCCCA
AGTACCGGGCACCCAGGGTGTCTCAGGTGTGGACGAGTGTCCCCGGCAGGAGGGCCTGACTTTCTTTGGCACAG
AGCTAGCCCCAGTGCGGCAACAGGAGCTGGCCTCTCTGCTAAGAACATACTTGGCACGGCTGCCCTGGGCTGGGC
AGCTGACCAAGGAGCTACCCCTCTCACCTGCTTTCTTTGGTGAGGATGGCATCTTCCGTATGACCGCCTCCGCT
TCCGGGATTTTGTGGATGCCCTGGAGGACAGCTTGGAGGAGGTGGCTGTGCAACAGACAGGTGATGATGAAG
TAGATGACTTTGAGGACTTCTCTTTCAGCCACTTCTTTGGAGACAAAGCACTGAAGAAGAGGTGAGGGAAGAAGG
ACAAGCACTCACAGAGCCCAAGAGCTGCGGGGCCAGGGAGGGGCACAGCCATAGCCACCACCACCACCACCGGG
GCTGACACCCCTGCCCCACAGGGAATGGCCTTGGCCTGGCCCAGCCCAAGATCCCAGCGTTATCTAACTCCTGGAG
GGTGGACTCTGTCTGGCTTGTGTTTGGTGTCTCTCAGATATCTTTACACAGTAGAGCAAAATCACCAGCCCTGCAC
TGATGTCACTTTATGTAGAAAAAGGCCTTAGCTGGACCTGCGTTGCCGTCTATGCAAAATGCATGCAAAATACTCCA
GGCCCTGGGATGTGGGCTTGTGTTTGTCACTGTGAAGGGGAGATGGGAGAGGAGCCTGTTTGGGGTGGGGTC
TGGGGAAGGCAATCTGATTCTGAAGCTAAAGAGCTTTCATCCTCTTGAGTGTATGTCCCATAGTGGGCCCTTG
ACCCACATGCTGACCGGTGCCTTGGGATTTGACTAGAGTTGCTGGCTCGAGGCCAGCAGGAGACTTACCCTGG
GGTTTTGTTAGGTTTGAAGCAGCTGTCCCTAGGGGGTGAAGTCCCCCCCCCTTTTTTTTTTACCCTGCTTCTC
CCACGGCTTCACCTCCCTATGTGAAGTGTAGACTCAGATCCCAATAAAGTGTGTGACAGTATGATGCTAGGTG
GTTTCTAAGCACAGGGGACACCCACACCCCTGCCTGAATGGATGGGTCCATCCAGGCACTGGTACTTGCCCC
CTTGTTCTGTATCCCCCTTGGCCCTTGCCCTTCCAACAAACCCTAGGCCCTTGAGAAGCTGATACTTCTC
CTTTTGTCTACAGCTGCCTTGGCCCCACCCCTGGGAGATGTAGCAAATTGAGTGTGGGTTTTGGAGTCTGAGCCT
CAGGCTCAAATCCAGGCCAAGTATCTTGGGCAAGTTAATCTCTGGGAACCTTGGGTTTCTTATCCTCAAAAAAG
CGCATGGAAGGGCTGGGGAAGTGATTAAATAAAGCAACGCAAGAAAAA

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FIGURE 669

MASCPDSDNSWVLAGESESLPVETLGPASRMDPESERALQAPHSPSKTDGKELAGTMDGEGTLFQTESPOSGSILT
EETEVKGTLEGDVCGVEPPGPGD TVVQGDLOETT VVTGLGPD TDLEGQSPQSLPSTPKAAWIREEGRCSSDD
DTDVDMEGLRRRRGREAGPPQPMVPLAVENQAGGEGAGGELGISLNMCLLGALVLLGLGVLLFSGGLSESETGPM
EEVERQVLPDPEVLEAVGDRQDGLREQLQAPVPPDSVPSLQNMGLLLDKLAKENQDIRLLQAQ_LQAQKEELQSLM
HQP KGLEEENAQLRGALQQGEAFQRALESELQQLRARLQGLEADCVRGPDGVCLSGGRGPQGDKAIREQGPREQE
PELSFLKQKEQLEAEAQALRQELERQRRLLGSVQODLERSLQDASRGDPAHAGLAELGHRLAQKLOGLLENWGQDP
GVSANASKAWHQKSHFQNSREWSGKEKWWDGQDRKA EHWKHKKEESGRERKKKNWGGQEDREPAGRWKEGRPRVE
ESGSKKEGKRQGPKEPPRKSGSFHSSGEKQKQPRWREGTKDSDPLPSWAELLRPKYRAPQGC SGVDECARQEGE
TFFGT ELAPVRQQELASLLR TYLARLPWAGQ LTKELPLSPAFFGEDGIFRHDRLRFRDFVDALEDSLEEVAVQQT
GDDDEVDDFEDFIFSHFFGDKALKKRSGKKDKHSQS PRAAGPREGHSHSHHHHHRG

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FIGURE 670

AAGCCACCCAGCCTATGCATCCGCTCCTCAATCCTCTCCTGTTGGCACTGGGCCTCATGGCGCTTTTGTGACCA
CGGTCATTGCTCTCACTTGCCTTGGCGGCTTTGCCTCCCCAGGCCCTGTGCCTCCCTCTACAGCCCTCAGGGAGC
TCATTGAGGAGCTGGTCAACATCACCCAGAACCAGAAGGCTCCGCTCTGCAATGGCAGCATGGTATGGAGCATCA
ACCTGACAGCTGGCATGTACTGTGCAGCCCTGGAATCCCTGATCAACGTGTCAGGCTGCAGTGCCATCGAGAAGA
CCCAGAGGATGCTGAGCGGATTCTGCCCGCACAAAGGTCTCAGCTGGGCAGTTTTCCAGCTTGCAATGTCGAGACA
CCAAAATCGAGGTGGCCAGTTTTGTAAAGGACCTGCTCTTACATTTAAAGAACTTTTTCGCGAGGGACGGTTCA
ACTGAAACTTCGAAAGCATCATTATTTGCAGAGACAGGACCTGACTATTGAAGTTGCAGATTCATTTTCTTTCT
GATGTCAAAAATGTCTTGGGTAGGCGGGAAGGAGGGTTAGGGAGGGGTAAAATTCCTTAGCTTAGACCTCAGCCT
GTGCTGCCCGTCTTCAGCCTAGCCGACCTCAGCCTTCCCCTTGCCAGGGCTCAGCCTGGTGGGCCTCCTCTGTC
CAGGGCCCTGAGCTCGGTGGACCCAGGGATGACATGTCCCTACACCCCTCCCCTGCCCTAGAGCACACTGTAGCA
TTACAGTGGGTGCCCCCCTTGCCAGACATGTGGTGGGACAGGGACCCACTTCACACACAGGCAACTGAGGCAGAC
AGCAGCTCAGGCACACTTCTTCTGGTCTTATTTATTATTGTGTGTTATTTAAATGAGTGTGTTTGTACCGTTG
GGGATTGGGGAAGACTGTGGCTGCTGGCACTTGAGCCAAGGGTTCAGAGACTCAGGGCCCCAGCACTAAAGCAG
TGGACCCCAAGGAGTCCCTGGTAATAAGTACTGTGTACAGAATTCTGCTACCTCACTGGGGTCTTGGGGCCTCGGA
GCCTCATCCGAGGCAGGGTCAGGAGAGGGGCAGAACAGCCGCTCCTGTCTGCCAGCCAGCAGCCAGCTCTCAGCC
AACGAGTAATTTATTGTTTTCTCTGTATTTAAATATTTAAATATGTTAGCAAAGAGTTAATATATAGAAGGGTAC
CTTGAACACTGGGGGAGGGGACATTGAACAAGTTGTTTCATTGACTATCAAACCTGAAGCCAGAAATAAAGTTGGT
GACAGATA

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FIGURE 671

MALLTTVIALTCLGGFASPGVPPSTALRELIEELVNITQNQKAPLCNGSMVWSINLTAGMYCAALESLINVSG
CSAIEKTQRMLSGFCPHKVSAGQFSSLHVRDTKIEVAQFVKDLLHLKKLFREGRFN

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FIGURE 672

ATCACTCTCTTTAATCACTACTCACATTAACCTCAACTCCTGCCACAATGTACAGGATGCAACTCCTGTCTTGCA
TTGCACTAATTCTTGCACTTGTACAAACAGTGCACCTACTTCAAGTTCGACAAAGAAAACAAAGAAAACACAGC
TACAACTGGAGCATTCTACTGCTGGATTACAGATGATTTGAATGGAATTAATAATTACAAGAATCCCAAACCTCA
CCAGGATGCTCACATTTAAGTTTTACATGCCCAAGAAGGCCACAGAAGTGAACAGCTTCAGTGTCTAGAAGAAG
AACTCAAACCTCTGGAGGAAGTGTGAATTTAGCTCAAAGCAAAAACCTTCACTTAAGACCCAGGGACTTAATCA
GCAATATCAACGTAATAGTTCTGGAAGTAAAGGGATCTGAAACAACATTCATGTGTGAATATGCAGATGAGACAG
CAACCATTGTAGAATTTCTGAACAGATGGATTACCTTTTGTCAAAGCATCATCTCAACACTAACTTGATAATTAA
GTGCTTCCCACTTAAACATATCAGGCCTTCTATTTATTTATTTAAATATTTAAATTTTATATTTATTGTTGAAT
GTATGGTTGCTACCTATTGTAAGTATTATTTCTTAATCTTAAACTATAAATATGGATCTTTTATGATTCTTTTG
TAAGCCCTAGGGGCTCTAAATGGTTTACCTTATTTATCCCAAAATATTTATTATTATGTTGAATGTTAAATAT
AGTATCTATGTAGATTGGTTAGTAAACTATTTAATAAATTTGATAAATATAAAAAAAAAAAAACAAAAAAAAAA

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FIGURE 673

MYRMQLLSICIALILALVTNSAPTSSSTKKTKKTQLQLEHLLLDLQMLNGINNYKNPKLTRMLTFKFYMPKKATE
LKQLQCLEEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTFMCEYADETATIVEFLNRWITFCQS
IISTLT

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FIGURE 674

GATCCAAACATGAGCCGCCTGCCCGTCCTGCTCCTGCTCCAACCTCCTGGTCCGCCCCGGACTCCAAGCTCCCATG
ACCCAGACAACGTCCTTGAAGACAAGCTGGGTAACTGCTCTAACATGATCGATGAAATTATAACACACTTAAAG
CAGCCACCTTTGCCTTTGCTGGACTTCAACAACCTCAATGGGGAAGACCAAGACATTCTGATGGAAAATAACCTT
CGAAGGCCAAACCTGGAGGCATTCAACAGGGCTGTCAAGAGTTTACAGAACGCATCAGCAATTGAGAGCATTCTT
AAAAATCTCCTGCCATGTCTGCCCCTGGCCACGGCCGCACCCACGCGACATCCAATCCATATCAAGGACGGTGAC
TGGAATGAATTCCGGAGGAACTGACGTTCTATCTGAAAACCTTGAGAATGCGCAGGCTCAACAGACGACTTG
AGCCTCGCGATCTTTTAGTCCAACGTCCAGCTCGTTCTCTGGGCCTTCTCACCACAGCGCCTCGGGACATCAAAA
ACAGCAGAACTTCTGAAACCTCTGGGTCACTCTCACACATTCCAGGACCAGAAGCATTTACCTTTTCCTGCGG
CATCAGATGAATTGTTAATTATCTAATTTCTGAAATGTGCAGCTCCCATTTGGCCTTGTGCGGTTGTGTTCTC

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FIGURE 675

MSRLPVLLLLQLLVVRPGLQAPMTQTTSKTSWVNCSNMIDEIITHLKQFPPLPLDFNNLNGEDQDILMENNLRP
NLEAFNRAVKSLQNASAIESILKNLLPCLPLATAAPTRHPIHKDGDWNEFRKLTFLYKTLNAQAQQTLSLA
IF

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FIGURE 676

GAGGTTGAAGGACCCAGGCGTGTCAGCCCTGCTCCAGAGACCTTGGGCATGAGGAGAGTGTCGTACGGCCCTCA
GTGTTTGTGGTGGATGGACAGACCGACATCCCATTCACGAGGCTGGGACGAAGCCACCGGAGACAGTCGTGCAGT
GTGGCCCGGGTGGGTCTGGGTCTCTTGCTGTTGCTGATGGGGGCTGGGCTGGCCGTCCAAGGCTGGTTCCTCCTG
CAGCTGCACTGGCGTCTAGGAGAGATGGTCACCCGCTGCCTGACGGACCTGCAGGCTCCTGGGAGCAGCTGATA
CAAGAGCGAAGGTCTCAGAGGTCAACCCAGCAGCGCATCTCACAGGGGCCAACTCCAGCTTGACCGGCAGCGGG
GGGCCGCTGTTATGGGAGACTCAGCTGGGCCTGGCCTTCCTGAGGGGCTCAGCTACCACGATGGGGCCCTTG
GTCACCAAAGCTGGCTACTACTACATCTACTCCAAGGTGCAGCTGGGCGGTGTGGGCTGCCCGCTGGCCTGGCC
AGCACCATACCCACGGCCTCTACAAGCGCACACCCCGCTACCCCGAGGAGCTGGAGCTGTTGGTCAGCCAGCAG
TCACCCTGCGGACGGGCCACCAGCAGCTCCCGGGTCTGGTGGGACAGCAGCTTCCTGGGTGGTGTGGTACACCTG
GAGGCTGGGGAGGAGGTGGTCGTCCGTGTGCTGGATGAACGCCTGGTTCGACTGCGTGATGGTACCCGGTCTTAC
TTCGGGGCTTTTCATGGTGTAAGGAAGGAGCGTGGTGCATTGGACATGGGTCTGACACGTGGAGAACTCAGAGGG
TGCCCTCAGGGGAAAGAAAACCTACGAAGCAGAGGCTGGGCGTGGTGGCTCTCGCCTGTAATCCCAGCACTTTGGG
AGGCCAAGGCAGGCGGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTGGCTAACATGGCAAACCCCATCTCTA
CTAAAAATACAAAAATTAGCCGGACGTGGTGGTGCCTGTAATCCAGCTACTCAGGAGGCTGAGGCAGGATA
ATTTTGCTTAAACCCGGGAGGCGGAGGTGTCAGTGAGCCGAGATCACACCACTGCACTCCAACCTGGGAAACGCA
GTGAGACTGTGCCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 677

MEESVVRPSVFVVDGQTDIPFTRLGRSHRRQSCSVARVGLLLLLLMGAGLAVQGWFLLQLHWRLGEMVTRLPDG
PAGSWEQLIQERRSHEVNPAAHLTGANSSLTGSGGPLLWETQLGLAFLRGLSYHDGALVVTKAGYYYYISKVQLG
GVGCPLGLASTITHGLYKRTPRYPEELELLVSQQSPCGRATSSSRVWWDSSFLGGVVHLEAGEEVVVRVLDRLV
RLRDGTRSYFGAFMV

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FIGURE 678A

GGCACGAGGCTCGCCGCGGACTCAAGATGCGCGCGTGTGGACGTGTACGGAGGATGTTCCGCTTGTGGCGGGCGC
TGCATCTGCTGCTGCTATTTCGCGGCCGGGGGCAGAACTCCCCGCCAGGGCGTCCCACAGCCAGGGCCAGGGTC
CCGGGGCCAACTTTGTGTCTTCGTAGGGCAGGCGGAGGCGGCGGCCGGCGGGTCAGCAGCTGCCCCAGCTGC
CTCAGTCATCGCAGCTTCAGCAGCAACAGCAGCAGCAGCAACAGCAACAGCAGCCTCAGCCGCCGAGCCGCCCTT
TCCCGGCGGGTGGGCCTCCGCGGCGGGGAGGAGCGGGGGCTGGTGGGGGCTGGAAGCTGGCGGAGGAAGAGTCCT
GCAGGGAGGACGTGACCCGCGTGTGCCCTAAGCACACCTGGAGCAACAACCTGGCGGTGCTCGAGTGCCTGCAGG
ATGTGAGGGAGCCTGAAAATGAAATTTCTTCAGACTGCAATCATTTGTTGTGGAATTATAAGCTGAACCTAACTA
CAGATCCCAAATTTGAATCTGTGGCCAGAGAGGTTTGCAATCTACTATAACAGAGATTAAAGAAATGTGCTGATG
AACCAGTTGGAAAAGGTTACATGGTTTCTGCTTAGTGGATCACCGAGGCAACATCACTGAGTATCAGTGTACC
AGTACATTACCAAGATGACGGCCATCATTTTTAGTGATTACCGTTTAATCTGTGGCTTCATGGATGACTGCAAAA
ATGACATCAACATTCTGAAATGTGGCAGTATTCGGCTTGGAGAAAAGGATGCACATTCACAAGGTGAGGTGGTAT
CATGCTTGGAGAAAAGCCTGGTGAAAGAAGCAGAAGAAAGAGAACCCAAGATTCAAGTTTCTGAACCTCTGCAAGA
AAGCCATTCTCCGGTGGCTGAGCTGTCTCGGATGACTTTCACTTAGACCGGCATTTATATTTGCTTGCCGAG
ATGATCGGGAGCGTTTTTGTGAAAATACACAAGCTGGTGAGGGCAGAGTGTATAAGTGCCTCTTTAACCATAAAT
TTGAAGAATCCATGAGTGAAAAGTGTGAGAAGCACTTACAACCCGCCAAAAGCTGATTGCCAGGATTATAAAG
TCAGTTATTCTATGGCCAAATCCTGTAAAAGTGAAGTGAAGAAATACCGGTGCAATGTGGAACCTTCCGCGAT
CGCGTGAAGCCAGGCTCTCCTACTTGTAAATGTGCCTGGAGTCAGCTGTACACAGAGGGCGACAAGTCAGCAGTG
AGTGCCAGGGGAGATGCTGGATTACCGACGCATGTTGATGGAAGACTTTTCTGAGCCCTGAGATCATCCTAA
GCTGTGCGGGGAGATTGAACACCATTGTTCCGATTACATCGAAAAGGACGGACCCTACACTGTCTGATGAAGG
TAGTTCGAGGGGAGAAGGGGAACCTTGAATGAAGTGCAGCAGCGCTTCAAACACTGATTGAGGAGACTGACC
CTGGTGCAGATTACCGCATGATCGAGCTTTGAATGAAGCTTGTGAATCTGTAATCCAGACAGCCTGCAAACATA
TAAGATCTGGAGACCCAATGATCTCGTCGTGCTGATGGAACATTTATACACAGAGAAGATGGTAGAAGACTGTG
AACACCGTCTCTTAGAGCTGCAGTATTTTCATCTCCCGGGATTGGAAGCTGGACCCTGTCTGTACCGCAAGTGCC
AGGGAGACGCTTCTCGTCTTTGCCACACCCACGGTTGGAATGAGACCAGTGAATTTATGCCTCAGGGAGCTGTGT
TCTCTTGTGTTTATACAGACACGCTACCGCACTGAAGAACAGGGAAGGAGGCTCTCACGGGAGTGCCGAGCTGAAG
TCCAAAGGATCCTACACCAGCGTGCCATGGATGTCAAGCTGGATCCTGCCCTCCAGGATAAGTGCTGATTGATC
TGGGAAAATGGTGCAGTGAGAAAACAGAGACTGGACAGGAGCTGGAGTGCCTTCAGGACCATCTGGATGACTTGG
TGGTGGAGTGTAGAGATATAGTTGGCAACCTCACTGAGTTAGAAATCAGAGGATATCCAAATAGAAGCCTTGCTGA
TGAGAGCCTGTGAGCCATAATTTCAGACATTCTGCCACGATGCGGATAACCAGATAGACTCTGGGGACCTGATGG
AGTGTCTGATACAGAAACAAACACCAGAAGGACATGAACGAGAAGTGTGCCATCGGAGTTACCCACTTCCAGCTGG
TGCAGATGAAGGATTTTCGGTTTTCTTACAAGTTTAAATGGCCTGCAAGGAGGACGTGTTGAAGCTTTGCCCAA
ACATAAAAAAGAAGGTGGACGTGGTGATCTGCCTGAGCACGACCGTGCGCAATGACACTCTGCAGGAAGCCAAGG
AGCACAGGGTGTCCCTGAAGTGCCGAGGCAGCTCCGTGTGGAGGAGCTGGAGATGACGGAGGACATCCGCTTGG
AGCCAGATCTATACGAAGCCTGCAAGAGTGACATCAAAAACCTTCTGTTCCGCTGTGCAATATGGCAACGCTCAGA
TTATCGAATGTCTGAAAGAAAACAAGAAGCAGCTAAGCACCCGCTGCCACCAAAAAGTATTTAAGCTGCAGGAGA
CAGAGATGATGGACCCAGAGCTAGACTACACCCTCATGAGGGTCTGCAAGCAGATGATAAAGAGGTCTGTGCCG
AAGCAGATTCTAAAACCATGTTGCAGTGCTTGAAGCAAAATAAAAACAGTGAATTGATGGATCCCAAATGCAAAC
AGATGATAACCAAGCGCCAGATCACCCAGAACACAGATTACCGCTTAAACCCCATGTTAAGAAAAGCCTGTAAAG
CTGACATTCTAAATTCTGTACGGTATCTGACTAAGGCCAAGGATGATTGAGAATTAGAAGGACAAGTCATCT
CTTGCCCTGAAGCTGAGATATGCTGACCAGCGCTGTCTTCAGACTGTGAAGACCAGATCCGAATCATTATCCAGG
AGTCCGCCCTGGACTACCGCCTGGATCCTCAGCTCAGCTGCCTGCTCAGACGAGATCTCCAGTCTATGTGCTG
AAGAAGCAGCAGCCCAAGAGCAGACAGGTGAGGTGAGGAGTGCTCAAGGTCAACCTGCTCAAGATCAAAAACAG
AATTGTGTAAAAGGAAGTGCTAAACATGCTGAAGGAAAGCAAAGCAGACATCTTGTGACCGGTACTTCATA
CTGCTTGTGCCCTGGACATTAAACACCACTGCGCAGCACTACCCCTGGCCGCGGGCGTCAAATGTCTGTCTCA
TGGAAGCACTGGAGGATAAGCGGGTGAGGTTACAGCCCGAGTGCAAAAAGCGCCTCAATGACCGGATTGAGATGT
GGAGTTACGCAGCAAAGGTGGCCCCAGCAGATGGCTTCTGTATCTTCCATGCAAGTAATGACGTCTCCATCTA
AGAATACTTCTCTGTGATCAGTGGGAGCATCTGTATATTGTTCCCTGATTGGCCTGATGTGTGGACGGATCA
CCAAGCGAGTGACACGAGAGCTCAAGGACAGGTAGAGCCACCTTGACCACCAAGGAACCTACCTATCCAGTGCC

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FIGURE 678B

AGTTTGACAGCCCTCTTGTATAGCATCCCCACTCACCTCGCTCTTCTCAGAAGTGACACCAACCCCGTGTTAGA
GCATTAGCAGATGTCCACTGCGTTGTCCCATCCAGCCTCCACTCGTGTCCATGGTGTCCCTCCTCCTCACCCT
GCAGCAGCAGCAGCTGGTCGCTGGGGTTACTGCCTTTGTTGGCAAACCTGGGTTTACCTGCCTGTAGACAAGTC
TCTCTACACCAACAGAACTTCCGGTACTTCAGAACCAACTCACCTGACCTGCAACTCAAAGGCTTTTTTAAGA
AAACCACCA

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FIGURE 679

MAACGRVRRMFRLSAAHLLLLFAAGGRNSPARASHSQGQPGANFVSFVGQAGGGGPAGQQLPQLPQSSQLQQQ
QQQQQQQQPQPFPFPFAGGPPRRGGAGAGGGWKLAEEESCREDVTRVCPKHTWSNNLAVLECLQDVREPENEI
SSDCNHLWNKLNLTDPKFESVAREVCKSTITEIKECADEPVGKGYMVSLVDHRGNITEYQCHQYITKMTAI
IFSDYRLICGFMDDCKNDINILKCGSIRLGEKDAHSQGEVVSCLVKGLVKEAEEREFKIQVSELCKAILRVAEL
SSDDFHLDRHLYFACRDDRERFCENTQAGEGRVYKCLFNHKEESMSEKCREALTTRQKLIADYKVSYSKAKSC
KSDLKKYRCNVENLPRSREARLSYLLMCLESVHRGRQVSSECQGEMLDYRRMLMEDFSLSPEIILSCRGEIEHH
CSGLHRKGRITLHCLMKVVRGEKGNLGMNCQALQTLIQETDPGADYRIDRALNEACESVIQTACKHIRSGDPMIS
SCLMEHLYTEKMVEDCEHRLLELQYFISRDWKLDPVLYRKQGDASRLCHTHGWNETSEFMPQGAVFSCLYRHAY
RTEEQGRRLSRECRAEVQRILHQRAMDVKLDPALQDKCLIDLKWCSEKTETGQELECLQDHLDDLVECRDIVG
NLTELESEDIQIEALLMRACEPIIQTFCHDADNQIDSGDLMECLIQNKHQKDMNEKCAIGVTHFQLVQMKDFRFS
YKFKMACKEDVLKLCPNIKKKVDVVICLSTTVRNDTLQEAKEHRVSLKCRRLRVEELEMTEDIRLEPDLYEACK
SDIKNFCSAVQYGNAQIIIECLKENKKQLSTRCHQKVFKLQETEMMDPELDYTLMRVCKQMIKRFCEADSKTMLQ
CLKQNKNSSELMDPKCKQMITKRQITQNTDYRLNPMLRKACKADIPKFCHGILTAKDDSELEGQVISCLKLRYAD
QRLSSDCEDQIRIIQESALDYRLDPQLQLHCSDEISSLCAEEAAAQEQTGQVEECLKVNLLKIKTELCKKEVLN
MLKESKADIFVDPVLHTACALDIKHHCAALTPGRGRQMSCLMEALEDKRVRLQPECKKRLNDRIEMWSYAAKVAP
ADGFSDLAMQVMTSPSKNYILSVISGSICILFLIGLMCGRITKRVTRELKDR

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FIGURE 680

TCGGGGCCAGCGCATGGGGCTGCTGAGACCGCTCCGGACGTGCGAAGCGTTCGCGGTGCGGTAGGAAGCTGAAGT
CTTCAGCAGAACCCTGACCTAGGTAGGGAGTCTCAATGGCCCTGGGTGAAGAAAAGGCAGAAGCGGAAGCATCTG
AAGACACAAAGGCCAGTCCTATGGGAGAGGGAGCTGCAGGGAGCGGGAGCTGGACATCCAGGGCCCATGAGTG
GGGAGCAGCCCCACGCCCTGGAAGCTGAGGGAGGGCTCATCTCCCTGTATGGGGGGCAGAAGGGATACCTGCCC
CTACTTGCTGGATTGGGACTGACCCTGGCAGCCCTCTAGAGCCCACCAGCCACAGGCCAGTGATGCCAACAGAG
AGCCCGTAGCTGAGAGGTCTGAGCCTGCACTCAGTGGCCTGCCTCCTGCCACCATGGGGTCTGGAGACCTTCTGC
TCTCCGGGGAAAGCCAGGTGGAGAAGACCAAGCTTTCTCCTCCGAGGAGTTCCTCAGACTCTGAGCCTTCCCA
GAACAACAATATTTGCTCAGGACATGATGCTGATACCGAAGATGATCCATCCCTAGCAGATTGCCCCAGGCAC
TGGACCTCAGCCAGCAGCCTCACAGCTCAGGTCTCTCTGCCTGTCACAGTGAAGTCCGTGCTGAGCCAGGTT
CCGCAGCTCAGCCTTCCAGCTGCAGCATCTCTGCTTCTCCACGGGCAGCAGTCTCCAGGGTACCAGGAGAGGG
CGGAGCCTCGTGGTGGTTCTCTGGCCAAGGTCTCCTCCTCCCTGGAGCCGGTCTGTCCTCCAGGAACCTTCTCTG
TGGTGGGGCTAGGACCTCGGCCCCAGTGGTCACCACAGCCTGTGTTCTCTGGGGGTGATGCTTCTGGGCTAGGCA
GGAGACGCCCTCTCCTTCCAGGCTGAGTACTGGGCCTGTGTGCTGCCAGATTCCCTGCCTCCATCACCAGCCGCC
ACTCCCTCTCTGGAACCCAAATAAAGAGTATGAAGATCTGCTTGACTATACTTACCCACTGAGGCCCGGGCCTC
AGCTCCCAAAGCACCTTGATAGCCGTGTGCCAGCTGACCCTGTCTGTCAGGACTCCGGGGTAGACCTGGATAGCT
TCTCTGTCTCTCCAGCAAGCACCCCTCAAATCACCTACTAATGTCTCCCCAACTGCCACCAGCAGAGGCCACTG
CCCTGCCATTTTCTGGGGCCAGAGAGCCAAGCCTTAAGCAGTGGCCCTCCAGAGTACCCAGAAACAGGGTGGCA
TGGGCTTGGCATCTTGGAGCCAACCTTGATCTACCCCCAGAGCCCCAGGCAGTAGGGATGCTCGTTGGGAGCGCA
GAGAGCCAGCCCTGAGGGGTGCGAAGGACCGGCTGACTATAGGCAAGCACCTTGATAIGGGCTCTCCCCAGCTAA
GGACACGGGACAGAGGGTGGCCCTCGCCCAGGCCAGAGAGGGAGAAGAGGACCAGCCAGAGTGCCCGGCGCCCTA
CCTGCACAGAGTCTAGGTGGAATCAGAAGAGGAAGTGAAAGTGATGACGAGTATCTTGCCCTCCCCGCTCGGC
TGACACAGACATTTTGCTGTCAGCTGGAAGAGCTGATCTGCTGGCTGTATAATGTTGCAGATGTTACTGACCAG
GGACTGCAGCCAGGTCCAATCTTACAAGTCTCAAGTCTTCTCTGCAGCTTACCGGCAATTTAAGAAAGATATAG
ATGAACATCAGTCTCTGACGGAGAGTGTCTTACAGAAGGGGGAGATTCTTCTTCAAGTGCCTGTTGGAGAACACCC
CAGTTTTAGAGGATGTCCTTGGGAGGATCGCAAAGCAGTCTGGTGAGCTGGAGAGCCACGCAGATCGCCTGTATG
ACTCTATCTTGGCCTCTCTGGACATGCTGGCTGGCTGCACCCCTATCCCTGACAAAAAGCCCATGGCGGCAATGG
AGCACCCATGTGAAGGGGTTTAACTGGCATCTTCTCAGGCAGAGGTGCAACCTGTGCGCCAAACACTGGCTAGT
GAGAAAAAAACCTTCAAGAAGTCCTTGAAGAGCCATTCAACACTGAAGTCAAGGGGAAACCTTCAATATACT
AGCTTTAAATGCCTTCTCCTCCCTGAATGGAGGGCTGAGTTACTATTTTATTTACAATGAATCCTTCCAAAC
TAAAAA

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FIGURE 681

MALGEEKAEAEASEDTKAQSYGRGSCRERELDIPGPMSEQPPRLEAEGGLISPVWGAEGIPAPTCWIGTDPGSP
SRAHQFQASDANREPVAERSEPALSGLPATMGSGDLLSGESQVEKTKLSSSEFPQTLSLPRTTTICSGHDAD
TEDDPSLADLPQALDLSQQPHSSGLSCLSQWKSVLSPGSAAQSSCSISASSTGSSSLQGHQERAEPRGGSIAKVS
SSLEPVVPQEPSSVVG LGPRPQWSPQPVFSGGDASGLGRRRLSFQAEYWACVLPDSLPPSPDRHSPLWNPKEYE
DLLDYTYPLRPGPQLPKHLSRVPADPVLQDSGVDLDSFVSVPASTLKSPNTVSPNCPPEATALPFSGPREPSL
KQWPSRVPQKQGGMGLASWSQLASTPRAPGSRDARWERREPALRGAKDRLTIGKHLDMGSPQLRTRDRGWPSRP
EREKRTSQSARRPTCTESRWKSEEEVESDDEYLALPARLTQTFCCQLEELICWLYNVADVTDHGTAARSLTSLK
SSLQLYRQFKKDIDEHQSLTESVLQKGEILLQCLELNTFVLEDVLGRIAKQSGELESADRLYDSILASLDMLAG
CTLIPDKKPMAMEHPCEGV

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FIGURE 682

GGGCAACGGAGGGGAAATAAAAGGGAACGGCTCCGAATCTGCCCCAGCGGCCGCTGCGAGACCTCGGCGCCGACA
TCGCGACAGCGAAGCGCTTTGCACGCCAGGAAGGTCCCCCTCTATGTGCTGCTGAGCCGGTCTTGGACGCGACGAG
CCCGCCCTCGGTCTTTCGGAGCAGAATTCGCAAAAACGGAAGGACTGGAAATGCGCAGACCATATGATGGCAATGAA
CCACGGGCGCTTCCCCGACGGCACCAATGGGCTGCACCATCACCTGCCACCGCATGGGCATGGGGCAGTTCCC
GAGCCCCATCACCACCAGCAGCAGCAGCCCCAGCAGCCTTCAACGCCCTAATGGGCGAGCACATACACTACGG
CGCGGGCAACATGAATGCCACGAGCGGCATCAGGCATGCGATGGGGCCGGGGACTGTGAACGGAGGGCACCCCCC
GAGCGCGCTGGCCCCCGCGGCCAGGTTTAACAACTCCCAGTTCATGGGTCCCCCGGTGGCCAGCCAGGGAGGCTC
CCTGCCGGCCAGCATGCAGCTGCAGAAGCTCAACAACCAAGTATTTCAACCATCACCCCTACCCCCACAACCACTA
CATGCCGATTGTCACCTGCTGCAGGCCACCAGATGAACGGGACAAACCAGCACTTCCGAGATTGCAACCCCCAA
GCACAGCGGCGGCAGCAGCACCCCCGGCGGCTCGGGCGGCAGCAGCACCCCGGCGGCTCTGGCAGCAGCTCGGG
CGGCGGCGCGGGCAGCAGCAACAGCGGCGGCGGCAGCGGCAGCGGCAACATGCCCGCTCCGTGGCCACGTCCC
CGCTGCAATGCTGCCGCCAATGTCATAGACACTGATTTTCATCGACGAGGAAGTTCTTATGTCCTTGGTGATAGA
AATGGGTTTGGACCGCATCAAGGAGCTGCCCCAACTCTGGCTGGGGCAAAACGAGTTTGATTTTATGACGGACTT
CGTGTGCAAACAGCAGCCAGCAGAGTGAGCTGTGACTCGATCGAAACCCCGGCGAAAGAAATCAAACCCCCAA
CTTCTTCGGCGTGAATTAAGAAACATTCCCTTAGACACAGTATCTCACTTTTCAGATCTTGAAAGGTTTGAGA
ACTTGAAACAAAGTAACTATAAACTTGTAACAAATGGTTTTAAAAAAATTGCTGCCACTTTTTTTCCTGTTT
TTGTTTCGTTTTTGTAGCCTTGACATTCACCCACCTCCCTTATGTAGTTGAAATATCTAGCTAAGTTGGTCTTTT
TCGTTGTTTGTCTTTTACTCCTTTCCCTCACTTTCTCCAGTGCTCAACTGTTAGATATTAATCTTGGCAAACGCT
TAATCTTGTTGATTTTGTAGATGGTTTCAAATGACTGAAGTGCATTGAGATTTACGAGTGAAAGGAAAAATTGCA
TTAGTTGGTTGCATGAACTTCGAAGGGCAGATATTACTGCACAACTGCCATCTCGCTTCATTTTTTTAACTATG
CATTTGAGTACAGACTAATTTTTAAATATGCTAACTGGAAGATTAAACAGATGTGGGCCAACTGTTCTGGAT
CAGGAAAGTCATACGTTCATTTCAAGTTGGCTGTCCCCCGCGCCCCCCCCACCCCATATGTACAGATGA
TAATAGGGTGTGGAATGTCGTCAGTGGCAACATTTACAGATTTTTATTTTGTCTTCAACATTTTTGA
CACTGTGCTAATAGTTATATTAGTACATGAAAAGATACTACTGTGTTGAAAGCTTTTTAGGAAATTTTGACAGT
ATTTTGTACAAAACATTTTTTTGAAAAATACTTGTTAATTTATTTCTATTTTAATTTGCCAATGTCATAAAAA
GTTAAGAAAAA

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FIGURE 683

MADHMMAMNHGRFPDGTNGLHHHPAHRMGMGQFPSPHHHQQQPQHAFNALMGEHIHYGAGNMNATSGIRHAMGP
GTVNGGHPPSALAPAARFNNSQFMGPPVASQGGSLPASMQLQKLNNQYFNHHYPYHNHYMPDLHPAAGHQMNNGTN
QHFRDCNPKHSGGSSTPGSGGSSTPGSGSSSSGGGAGSSNSGGSGSGGNMPASVAHVPAAMLPPNVIDTDFIDE
EVLMSLVIEMGLDRIKELPELWLGQNEFDFMTDFVCKQQPSRVSC

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FIGURE 684

ACACGGACCAAGGAGTCTAACACGTGCGCGAGTCGGGGGCTCGCACGAAAGCCGCCGTGGCGCAATGAAGGTGAA
GGCCGGCGCGCTCGCCGGCCGAGGTGGGATCCCGAGGCCTCTCCAGTCCGCCGAGGGCGCACCACCGGCCGTCT
CGCCCGCCGCGCCGGGAGGTGGAGCACGAGCGCACGTGTTAGGACCCGAAAGATGTTGAATATGCTTGGGCAG
GGCGAAGCCAGAGGAACTCTGGTGGAGGTCCGTAGCGGTCTGACGTGCAAATCGGTGCTCCGACCTGGGTATA
GGGGCGGGCTCCAGGCGAGGCGGTGACGCTCCTGAAAACCTTGCGCGCGCTCGCGCCACTGCGCCCGGAGCGA
TGAAGATGGTCGCGCCCTGGACGCGGTTCTACTCCAACAGCTGCTGCTTGTGCTGCCATGTCCGCACCGGCACCA
TCCTGCTCGGCGTCTGGTATCTGATCATCAATGCTGTGGTACTGTTGATTTTATTGAGTGCCCTGGCTGATCCGG
ATCAGTATAACTTTTCAAGTTCTGAACTGGGAGGTGACTTTGAGTTTATGGATGATGCCAACATGTGCATTGCCA
TTGCGATTTCTCTTCTCATGATCCTGATATGTGCTATGGCTACTTACGGAGCGTACAAGCAACGCGCAGCCTGGA
TCATCCCATTCTTCTGTTACCAGATCTTTGACTTTGCCCTGAACATGTTGGTTGCAATCACTGTGCTTATTATC
CAAATCCATTACAGGAATACATACGGCAACTGCCTCTTAATTTTCCCTACAGAGATGATGTCATGTCAGTGAATC
CTACCTGTTTGGTCCTTATTATTCTTCTGTTTATTAGCATTATCTTGACTTTTAAGGGTTACTTGATTAGCTGTG
TTTGAACCTGCTACCGATACATCAATGGTAGGAACCTCTCTGATGTCCTGGTTTATGTTACCAGCAATGACACTA
CGGTGCTGCTACCCCGTATGATGATGCCACTGTGAATGGTGTGCCAAGGAGCCACCGCCACCTTACGTGTCTG
CCTAAGCCTTCAAGTGGGCGGAGCTGAGGGCAGCAGCTTGACTTTGCAGACATCTGAGCAATAGTTCTGTTATTT
CACTTTTGCCATGAGCCTCTCTGAGCTTGTGTTGCTGAAATGCTACTTTTTAAATTTAGATGTTAGATTGAA
AACTGTAGTTTTCAACATATGCTTTGCTAGAACACTGTGATAGATTAAGTGTAGAATTCTTCTGTACGATTGGG
GATATAATGGGCTTCACTAACCTTCCCTAGGCATTGAAACTTCCCCCAAATCTGATGGACCTAGAAGTCTGCTTT
TGTACCTGCTGGGCCCCAAAGTTGGGCATTTTTCTCTCTGTTCCCTCTCTTTTGAAAATGTAAATAAAACCAA
AATAGACAACTTTTTCTTCAGCCATTCCAGCATAGAGAACAAACCTTATGGAAACAGGAATGTCAATTGTGTAA
TCATTGTTCTAATTAGGTAAATAGAAGTCCTTATGTATGTGTTACAAGAATTTCCCCACAACATCCTTTATGAC
TGAAGTTCAATGACAGTTTGTGTTTGGGTGGTAAAGGATTTTCTCCATGGCCTGAATTAAGACCATTAGAAAGCA
CCAGGCCGTGGGAGCAGTGACCATCTGCTGACTGTTCTTGTGGATCTGTGTCCAGGGACATGGGGTGACATGCC
TCGTATGTGTTAGAGGGTGAATGGATGTGTTTGGCGCTGCATGGGATCTGGTGCCCCCTTCTCTCTGGATTAC
ATCCCCACCCAGGGCCCGCTTTTACTAAGTGTTCTGCCCTAGATTGGTTCAAGGAGGTCATCCAAGTACTTTAT
CAAGTTGAATTGGGATATATTTGATATACTTCTGCCTAACAACATGGAAAAGGGTTTTCTTTTCCCTGCAAGCTA
CATCCTACTGCTTTGAACTTCCAAGTATGTCTAGTCACCTTTTAAATGTAAACATTTTACAGAAAATGAGGATT
GCCTTCTTGTATGCGCTTTTACCTTGACTACCTGAATTGCAAGGGATTTTATATATTATATGTTACAAAGT
CAGCAACTCTCCTGTTGGTTCATTATTGAATGTGCTGTAAATTAAGTTGTTGCAATTAACAAAGGTTTGCCCA
CAAAAAAAAAA

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FIGURE 685

MVNYAWAGRSQRKLWWRSVAVLTCKSVVRPGYRGGLQARRSTLLKTCARARATAPGAMKMVAPWTRFYNSCCLC
CHVRTGTILLGVWYLIINAVVLLILLSALADPDQYNFSSSELGGDFEFMDDANMCIAIAISLLMILICAMATYGA
YKQRAAWIIPFFCYQIFDFALNMLVAITVLIYPNSIQEYIRQLPPNFPYRDDVMSVNPTCLVLIILLFISIILTF
KGYLISCYWNCRYINGRNSSDVLVYVTSNDTTVLLPPYDDATVNGAAKEPPPPYVSA

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FIGURE 686

TCCACGGTGGCATCCATGATGCATCGTCAGGAGACTGTGGAGTGTGTTGCGCAAGTTCAATGCCCGGAGAAAAGTCTG
AAGGGTGCCATCCTCACGACCATGCTTGCTCTCCAGGAAGTTCTCAGCTGCCAAAAACCTATTGAACAAGAAGTCG
GATGGCGGTGTCAAGCCAAGAAACAACCTACAAGCTATAGAATTTAACAAAGCTTTACTTGCTATGTACACAAACC
AGGCTGAACAATGCCGCAAAATATCTGCCAGTTTACAGTCCCAAAGTCCCGAGCATCTCTTACCTGTGTTAATCC
AAGCTGCCCAGCTCTGCCGTGAAAAGCAGCACACAAAAGCAATAGAGCTGCTTCAGGAATTTTCAGATCAGCATC
CAGAAAATGCAGCTGAAATTAAGCTGACCATGGCACAGTTGAAAATTTCTCAGGTAATATTTCTAAAGCATGTT
TAATATTGAGAAGCATAGAGGAGTTAAAGCATAAACCAGGCATGGTATCTGCATTAGTTACCATGTATAGCCATG
AAGAAGATATTGATAGTGCCATTGAGGTCTTCACACAAGCTATCCAGTGGTATCAAAACCATCAGCCAAAATCTC
CTNCTCATTGTCTTGATAAGAGAAGCTGCAAACTTCAAATATGGGCGGAAGAAGGAGGCAATTAGTG
ACCTACAACAGCTGTGGAAACAAAATCCAAAAGATATTACACCCCTGGCACAGCTTATTTCTGCTTACTCACTTG
TAGATCCAGAGAAAGCCAAAGCTCTTAGTAAACACTTGCCATCGTCAGATAGTATGTCACTAAAAGTAGATGTTG
AGGCTCTTGAATTTCTGCTGGTGTACATACATTCGGAAGAAGGGTGGAAAAGTTACTGGAGATAGTCAACCAA
AGGAACAAGGACAGGGAGATTGAAAAAGTAGCAAAAAAAAAAAAAAAAAAACTTAAAGCTATCGATTCTGG

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FIGURE 687

MYTNQAEQCRKISASLQSQSPEHLLPVLIQAAQLCREKQHTKAIELLQEFSDQHPENAAEIKLTMAQLKISQGN
SKACLILRSIEELKHKPGMVSAVLTMYSHEDIDSAIEVFTQAIQWYQNHQPKSPXHLSLIREAANFKLYGRKK
EAIIDLQQLWKQNPDIHTLAQLISAYSLVDPEKAKALSKHLPSSDSMSLKVDVEALENSAGATYIRKKGGKVTG
DSQPKEQGQDLKK

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FIGURE 688

GTCCCAACTCTTGGA CTCCATTTGCTATTCTCTTTCTCCCCACACCTATCTGGTGGTGGTAGTGGGCGTTT
ATATTTGCGTTCCTTTTCATTCAATTTCTAAATCTCTTAAAAATTTGGGTGGGGGTATTGGGGAAGGCAGGAAA
GGGAAAAGGAGAGTAGTAGCTGAAGAGCAAGAGGAGGACATGGAGATGAAGAAGAAGATTAACTGGAGTTAAGG
AACAGATCCCCGGAGGAGGTGACAGAGTTAGTCCTTGATAATTGCCTGTGTGTCAATGGGGAAATTGAAGGCCTG
AATGATACITTCAAAGAACTAGAATTTCTGAGTATGGCTAATGTGGAACCTAAGTTCGCTGGCCCGGCTTCCCAGC
TTAAATAAACTTCGAAAATTGGAGCTTAGTGATAATATAATTTCTGGAGGCTTGGAAGTCCTGGCAGAGAAATGT
CCAAATCTTACCTACCTCAATCTGAGTGGAAACAAAATAAAAGATCTCAGTACAGTAGAAGCTCTGCAAAATCTT
AAAAATTTGAAAAGTCTTGACCTGTTTAACTGTGAGATCACAACCTGGAAGATTATAGAGAAAGTATTTTTGAA
CTACTGCAGCAAATCACATACTTAGATGGATTGATCAGGAGGATAATGAAGCGCCGGACTCTGAAGAGGAGGAT
GATGAGGATGGAGATGAAGATGATGAAGAGGAAGAGGAAAATGAAGCTGGTCCACCGGAAGGATATGAGGAAGAG
GAGGAGGAAGAGGAAGAGGAGGATGAGGATGAGGATGAAGATGAAGATGAAGCAGGTTGAGAGTTGGGAGAGGGA
GAAGAGGAAGTGGGCTCTCATACTTAATGAAAGAAGAAATTCAGGATGAAGAAGATGATGATGACTATGTTGAA
GAAGGGGAAGAAGAGGAAGAAGAGGAAGAAGGAGGTCTTCGAGGGGAGAAGAGGAAACGAGATGCTGAAGACGAT
GGAGAGGAAGAAGATGACTAGATCATTCTAAGACCAGATTCTCTAATGTTTCTGGGTGTGCAATAGAGTGATCAC
ATCTTTGTTTCTTCATGTACGATAGCTATCCCTACAGAAGATAATGTGTAACTTTTATAGGAAAAGTGTTGTTT
TACTATTTTTGCCTTATCATTCAAATAAGAACTAGTCTGTTAATGATCATATTGTATGTAGAGAAAAATTTTCA
TTGACTCCCATTTGTGAATTCCTAGCAATTTATTTAGACTTAATTTTTTAAATCAAGCTTACTGTATTAGTCA
TTTTTAGCCATAATTAACATGATCACTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 689

MEMKKKINLELRNRSPEEVTELVLDNCLCVNGEIEGLNDFKELEFLSMANVELSSLARLP
SLNKLRLKLELSDNI
ISGGLEVLAEKCPNLTYLNLSGNKIKDLSTVEALQNLKNLKSDDLNFCEITNLEDYRESIFELLQ
QITYLDGFDQ
EDNEAPDSEEEDEDEDGEDDEEEENEAGPPEGYEEEEEEEEDEDEDEDEDEAGSELGE
GEEVGLSYLMKEE
IQDEEDDDDYVEEGEEEEEEEGGLRGEKRRDAEDDGEEEDD

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FIGURE 690A

GGGCGCAGAGGAGGAAAGGGAGCAGGCGCAGGGGGACTGGAAGGCAGCATGCGCTCGCCAGGAGCAACCTCGGC
GCCCAGGGTCTGAGGCTGCAGCCCCAGTTTCGCCATTGTGAGCCGCCCGGGGAGTCCGCTAGCGCAGCCGTGC
CCCCGAGTCCCCGTCCGCGCAGCGATGGGGCACCTGCCACGGGGATACACGGCGCCCGCCCTCTGCCTCTG
CTCTGGCTCTTTGTGCTGTTCAAGAATGCTACAGCTTTCCATGTAAGTGTCCAAGATGATAATAACATCGTTGTC
TCATTAGAAGCTTCAGACGTCATCAGTCCAGCATCTGTGTATGTTGTGAAGATAACTGGTGAATCCAAAAATTAT
TTCTTCGAATTTGAGGAATTCAACAGCACTTTGCCCTCTCTGTTATTTTCAAGGCCAGTTATCATGGCCTTTAT
TATATAATCACTCTGGTAGTGGTAAATGGAAATGTGGTGACCAAGCCATCCAGATCAATCACTGTGTTAACAAAA
CCTCTACCTGTAACCACTGTTTCCATATATGACTATAAACCTTCTCCTGAAACAGGAGTCTGTTTGAATACAT
TATCCAGAAAAATATAACGTTTTCACAAGAGTGAACATTAGCTACTGGGAAGGTAAAGACTTCCGGACAATGCTA
TATAAAGATTTCTTTAAGGGAAAAACAGTATTTAATCACTGGCTGCCAGGAATGTGTTATAGTAATATCACCTTT
CAGCTGGTATCTGAGGCAACTTTTAATAAAAGTACCTTGTGAGTACAGTGGTGTGAGTCACGAACCCAAACAG
CACAGAACTGCCCCCTTATCCACCTCAAAATATTTCCGTTTCGTATCGTAACTTGAACAAAAACAACCTGGGAAGAA
CAGAGTGGCAATTTCCAGAGAATCCTTCATGAGATCAAGATACAATAGGAAAAGAAAACTCTTCCATTTT
ACAGAAGAAACCCCTGAAATTCCTCGGGCAACATTTCTCCGTTTGGCTGATTTTAAAGCAGTGAATATGAA
ACTACGCTCTCAGCCATATTGGTGGGACAGTGCATCTGCAGCTCCTGAAAGTGAAGATGAATTTGTGACGCTACTT
CCCATGGAATACGAAAATAACAGTACACTCAGTGAGACAGAGAAGTCAACATCAGGCTCTTCTCCTTTTTCCCT
GTGCAATGATATTGACCTGGTTACCACCCAAACCACCCACTGCTTTTGATGGGTTCCATATCCATATTGAACGA
GAAGAGAACTTTACTGAATATTGATGGTGGATGAAGAAGCACATGAATTTGTTGCAGAACTGAAGGAACCTGGG
AAATATAAGTTATCTGTGACAACCTTTAGTTCCTCAGGATCTTGTGAAACTCGAAAAAGTCACTCAGCAAAATCA
CTCAGCTTTTATATCAGTCTTCAGGAGAGTGGATTGAAGAAGTACCGAGAAGCCGCAGACAGTGAAGTCCAC
GTTTTAAGCTCAACCACTGCCTTGATGCTCGGACATCTTCCCAAGAGAACTACAACAGCACCAATTGTGTCTGTG
GTGTGCTGACCTGCCAGAAACAAAAGGAGAGCCAGAGGCTTGAAAAGCAGTACTGCACTCAGGTGAACCTCAAGC
AAACCTATTATTGAAAATCTGGTTCTGTTGCCAGTACCAGGTTGTAATATACCTAAGGAAAGGCCCTTTGATT
GGACCACCTTCAGATCCTGTGACATTTGCTATTGTTCCACAGGAATAAAGGATTTAATGCTCTATCCTTTGGGT
CCTACGGCCGTGGTTCTGAGCTGGACCAGACCTTATTTAGCGGTGTTGAGAAAATACGTGGTTGAAATGTTTTAT
TTCAACCCCTGCTACAATGACATCAGAGTGGACCACCTACTATGAAATAGCAGCAACTGTTTCCCTAAGTGCATCC
GTGAGAATAGCTAATCTGCTGCCAGCATGGTACTACAACCTCCGGGTTACCATGGTGACGTGGGGAGATCCAGAA
TTGAGCTGCTGTGACAGCTCTACCATCAGCTTCATAACAGCCCCAGTGGCTCCGGAAATCACTTCTGTGGAATAT
TTCAACAGTCTGTTATATATCAGTTGGACATATGGGGATGATAACAGGACTTGTCCTTCTAGAAATGCTTCAC
TGGATGGTGGTTGCAGAAAGGAAAAAGAAAATTAAGAGAGTGAACACGCAATGTCATGACTGCAATTTCTCAGC
TTGCCCTCCAGGCGACATCTATAACCTCTCAGTAACTGCTTGTACTGAAAGAGGAAGTAATACCTCCATGCTCCGC
CTTGTCAAGCTAGAACCAGCTCCACCCAAATCACTCTTCGCACTGAACAAAACCCAGACTTCAGTGAATTTGCTG
TGGGTGGAAGAGGGAGTAGCTGATTTCTTTGAAGTTTCTGTCAACAAGTTGGCTCCAGTCAGAAAACCAAACCTT
CAGGAACCACTTGTGTTTTCTTCCCATGTCGTGACCATCTCCAGCCTTCTTCTGCCACTGCCTACAATTGTAGT
GTCACCAGCTTTAGCCATGACAGCCCCAGTGTCCCTACGTTTCATAGCCGCTCAACAATGGTTACAGAGATGAAT
CCCAATGTGGTAGTGATCTCCGTGCTGGCCATCCTTAGCACACTTTTAATTGGACTGTTGCTTGTACCTCATT
ATCTTTAGGAAAAAGCATCTGCAGATGGCTAGGGAGTGTGGAGCTGGTACATTTGTCAATTTTGCACTCTTAGAG
AGGGATGGAAGCTTCCATACAACCTGGCGTAGGAGTATATTGCTTTCTTAACCCCTGCTACCTCATGTCTTTGG
ACTGATTATCTTTTGGCATTATTAATCCTTGGAGTAAAAATGGTTTAAAGAAGAGGAACTGACAAACCCG
GTTCAACTGGATGACTTTGATGCCATATTAAGGATATGGCCAAAGACTCTGACTATAAATTTCTCTTCAGTTT
GAGGAGTTGAAATTGATTGGACTGGATATCCACACTTTGCTGCAGATCTTCCACTGAATCGATGTAAAAACCGT
TACACAAACATCCTACCATATGACTTCAGCCGTGTGAGATTAGTCTCCATGAATGAAGAGGAAGGTGCAGACTAC
ATCAATGCCAACTATATTCCTGGATACAACCTACCCAGGAGTATATGCCACCCAGGGGCCACTGCCTGAAACC
AGAAATGACTTCTGGAAGATGGTCCGCAACAAAAGTCTCAGATTATTGTATGCTCACTCAGTGTAAATGAGAAA
AGGAGGGTGAAATGTGACCATTACTGGCCATTACGGAAGAACCTATAGCCTATGGAGACATCACTGTGGAGATG
ATTTAGAGGAAGAGCAGGACGACTGGGCCTGTAGACACTTCCGGATCAACTATGCTGACGAGATGCAGGATGTG
ATGCAATTTAACTACACTGCATGGCCTGATCATGGTGTGCCACAGCAAATGCTGCAGAAAGTATCCTGCAGTTT
GTACACATGGTCCGACAGCAAGCTACCAAGAGCAAAGGTCCCATGATCATTCACTGCAGTGTGGCTGGGACGG

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FIGURE 690B

ACAGGAACATTTCATTGCCCTGGACAGGCTCTTGACAGCACATTCGGGATCATGAGTTTGTGACATCTTAGGGCTG
GTGTCAGAAATGAGGTCATACCGGATGTCTATGGTACAGACAGAGGAGCAGTACATTTTATCCATCAGTGTGTG
CAACTGATGTGGATGAAGAAGAAGCAGCAGTTCTGCATCAGTGATGTCATATACGAGAATGTTAGCAAGTCCTAG

TTCAGAATCCGGAGCAGAGAGGACATGATGTGCGCCCATCCTCCCTTGCTTCCAGATTGTTTTAGTGGGCCCCTGA
TGGTCATTTTTCTAAACAGAGGCCCTGCTTTGTAATATGTGGCCAAGGAGATAATTTATCTCACAGAAGCACCGG
GAAGACTTAGCCTTAAAGAGCCTACAGTGTCCTTTTGGACTCTTTCACCTCGGGACATTTAATAATGGACCAAAT
TCAACAGAACACCAGGAAGGTCAAGACGCTCTCCAAAGGGCAGGAAGTACAGCACTTCCGAAGAGTTTAGTTGGC
CCTTTGCTGGTTGGGCTGAGTTTTTTATTTTAAAGTGTGTTTTTTCAGTGCAATAATTTTGTGTGTGTGTGAT
TCTTATCAGAAAGTTGAATTGTTTTCTGCCTACACCGTTCATCAGCCCCATAACCCAGGAAGGAACAGGCATTGT
TAGCATCAGATTATACCTCATTATTTAAAGGAGGCATGGCCACACATGAAGAAATGGTCATTCTACTTCAAAGAA
ATTGAGCCAGCACTATCTGTACTCCAACATTACCGGATCTGGATTGGGGAGGTTGGTCAGGGAAGAGAGGGGTTT
TACCCACAGATCAACTGTGTAATCTTTTACTATTCAAGCTATAATTCAAGCTTCAAAGTAGAGTAGAAAAAAAT
GTCTTAACTGTTCTAGTTCTTGATGGTTTTCTTCCTTATTAACAGTTGGTGTTCCTTCCTTGCCCCTTTTGGACT
AATGTTACTGTCCAAGTTCTTCTCAAGAAACCACATCTGGTTCAGAAGAGTGTCAAGTTGGACTCTTTGAACCTC
TGTGCTGTCTGAGCAATCGTGGTGCCTAGACTTTGCATTCTTGTCTGTTGACCTGCATACATGTGAGAGCTA
TTTCTTTAAGAACTATATAGGCTGTGAAAACGCACCTTTCTTTCCCCCAAAGAGCTGGGAATTTATGAAGTTATGG
CAATGAACGCAGCATGCTGGGACAATTATTTGACTACTTTTTTTTGTAAATATTGTCAAATGTCTCTATGGATT
TGACAGAGATTTCTTTTTGTTTTGTTATTCTTTTGGTTGTCAGTTTCATTTTAACGAGTGTAAGTAGTAACATTT
TATTCTTTGGATTTTGTATAATTACAGTACATGATTGTGTATTGTGACATGAATGCTGTCAAATGACATTGATG
GCATTGTGAAGCCTGTTACTTTGTGTCACTTCCTGATAAATAAGAGGTGATGACATGGATATACAACAGAAAACA
CTTTGAGTTGAAAGTAAACACAAGCTGGCTGCTTCCCTGTGGCAACTGTGGCT

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FIGURE 691

MGHLPTGIHGARRLLPLLWLFVLFKNATAFHVTQDDNNIVVSLEASDVISPASVYVVKITGESKNYFFEFEEFN
STLPPPVIFKASYHGLYYIITLVVNGNVVTKPSRSITVLTKPLPVTSVSIYDYKPSPETGVLFEIHYPEKYNVF
TRVNISYWEGKDFRTMLYKDFFKGKTVFNHWLPGMCYSNITFQLVSEATFNKSTLVEYSGVSHEPKQHRTAPYPP
QNI SVRIVNLNKNWEEQSGNFPEESFMRSQDTIGKEKLFHFTEETPEIPSGNISSGWPDPFNSSDYETTSQPYWW
DSASAPESEDEFVSVLPMYENNSTLSETEKSTSGSFSPFPVQMILTWLPPKPTAFDGFHIEREENFTEYL
MVDEEAHEFVAELKEPGKYKLSVTTFSSSGSCETRKSQSAKSLSFYIISPSGEWIEELTEKPQHVSVHVSSTTAL
MSWTSSQENYNSTIVSVVSLTCQKQKESQRLEKQYCTQVNSSKPIIENLVPGAQYQVVIYLRKGPLIGPPSDPVT
FAIVPTGIKDLMLYPLGPTAVVLSWTRPYLGVFRKYVVMFYFNPATMTSEWTTYEIAATVSLTASVRIANLLP
AWYYNFRVTMTWGDPELSCCDSSTISFITAPVAPEITSVEYFNSLLYISWTYGDDTTDLSHSRMLHWMVVAEGK
KKIKKSVTRNVMTAILSLPPGDIYNLSVTACTERGSNTSMLRLVKLEPAPPKSLFAVNKTQTSVTLWVEEGVAD
FFEVFCCQVGSSQKTKLQEPVAVSSHVVTISSLLPATAYNC SVTSFSDSPSVPTFI AVSTMVTEMNPNVVVISV
LAILSTLLIGLLLVTLLILRKKHLQMARECGAGTFVNFASLERDGLPYNWRRSIFAFLLTLLPCLWTDYLLAFY
INPWSKNGLKKRKLTPVQLDDFDAYIKDMAKDSYKFSLQFEELKLIGLDIPHFAADLPLNRCKNRYTNILPYD
FSRVRLVSMNEEEGADYINANYIPGYNSPQEYIATQGPLPETRNDFWKMVLQOKSQIIVMLTQCNEKRRVKCDHY
WPFTEEP IAYGDITVEMISEEEQDDWACRHFIRINYADEMQDVMHFN YTA WPDHGVPTANAAESILQFVHMVRQQA
TKSKGPMIIHCSAGVGRGTGTFIALDRLLQHIRDHEFVDILGLVSEMRSYRMSMVQTEEQYIFIHQCVQLMWMKKK
QQFCISDVIIYENVSKS

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FIGURE 692

CTACCTCTTCTCTCCACGCGGTTGAGAAGACCGGTTCGGCCTGGGCAACCTGCGCTGAAGATGCCGGGAAAACTC
CGTAGTGACGCTGGTTTTGGAATCAGACACCGCAATGAAAAAGGGGAGACACTGCCGAAAGCAAACCGAGGAGAAA
GAGAAAAAAGAGAAGCCAAAATCTGATAAGACTGAAGAGATAGCAGAAGAGGAAGAACTGTTTTCCCAAAGC
TAAACAAGTTAAAAAGAAAGCAGAGCCTTCTGAAGTTGACATGAATTCTCTAAATCCAAAAGGCCAAAAAGAA
AGAGGAGCCATCTCAAAATGACATTTCTCTAAAACCAAAGTTTGAGAAAGAAAAGGAGCCCATGAAAAGAA
AGTGGTTTTCTTCTAAAACCAAAGGTGACAAAAATGAGGAGCCTTCTGAGGAAGAAATAGATGCTCCTAAGCC
CAAGAAGATGAAGAAAGAAAAGGAAATGAATGGAGAACTAGAGAGAAAAGCCCCAAACTGAGAATGGATTTCC
TCATCCTGAACCGGACTGTAACCCAGTGAAGCTGCCAGTGAAGAAAGTAACAGTGAGATAGAGCAGGAAATACC
TGTGGAACAAAAGAAGGCGCTTTCTCTAATTTTCCCATATCTGAAGAACTATTAACTTCTCAAAGGCCGAGG
AGTGACCTTCTATTTCTTATACAAGCAAAGACATTCCATCATGTTTACAGCGGGAAGGACTTAATTGCACAGGC
ACGGACAGGAAC TGGGAAGACATTCTCCTTTGCCATCCCTTTGATTGAGAACTTCATGGGGAAC TGAAGACAG
GAAGAGAGGCCGTGCCCTCAGGTACTGGTTCTTGACCTACAAGAGAGTTGGCAAATCAAGTAAGCAAAGACTT
CAGTGACATCACAAAAAGCTGTGAGTGGCTTGTTTTATGGTGAAC TCCCTATGGAGGTCAATTGAAACGCAT
GAGGAATGGGATTGATATCCTGGTTGGAACACCAGGTGATCAAGACCACATACAGAATGGCAAAC TAGATCT
CACCAACTTAAGCATGTTGTCTGGATGAAGTGGACAGATGTTGGATATGGGATTGCTGATCAAGTGAAGA
GATTTTAAGTGTGGCATAACAAGAAAGATTCTGAAGACAATCCCCAAACATTGCTTTTTCTGCAACTTGCCCTCA
TTGGGTATTTAATGTTGCCAAGAAATACATGAATCTACATATGAACAGGTGGACCTGATTGGTAAAAAGACTCA
GAAAACGGCAATAACTGTGGAGCATCTGGCTATTAAGTGCCACTGGACTCAGAGGGCAGCAGTTATTGGGGATGT
CATCCGAGTATATAGTGGTCATCAAGGACGCACTATCATCTTTTGTGAAACCAAGAAAGAGCCAGGAGCTGTC
CCAGAATTCAGCTATAAAGCAGGATGCTCAGTCCTTGATGAGACATTCCACAGAAGCAAAGGGAATCACCTT
GAAAGGTTTTAGAAATGGTAGTTTTGGAGTTTTGGTGCCAACCAATGTTGCTGCACGTGGGTTAGACATCCCTGA
GGTTGATTGTTTATACAAAGCTCTCCACCAAGGATGTAGAGTCCCTACATTTCATCGATCCGGGCGGACAGGCAG
AGCTGGAAGGACGGGGTGTGCATCTGCTTTTATCAGCACAAGGAAGAATATCAGTTAGTACAAGTGGAGCAAAA
AGCGGGAATTAAGTTCAAACGAATAGGTGTTCTTTCTGCAACAGAAATAATAAAAGCTTCCAGCAAAGATGCCAT
CAGGCTTTTGGATTCCGTGCCCTCCACTGCCATTAGTCACTTCAAACAATCAGCTGAGAAGCTGATAGAGGAGAA
GGGAGCTGTGGAAGCTCTGGCAGCAGCACTGGCCCATATTTAGGTGCCACGTCCGTAGACCAGCGCTCCTTGAT
CAACTCAAATGTGGGTTTTGTGACCATGATCTTGAGTGCTCAATTGAAATGCCAAATATTAGTTATGCTTGAA
AGAACTTAAAGAGCAGCTGGGCGAGGAGATTGATTCCAAAGTGAAGGGAATGGTTTTTCTCAAAGGAAAGCTGGG
TGTTTTGCTTTGATGTACCTACCGCATCAGTAACAGAAATACAGGAGAAATGGCATGATTACGACGCTGGCAGCT
CTCTGTGGCCACAGAGCAACCAGAACTGGAAGGACCACGGGAAGGATATGGAGGCTTCAGGGGACAGCGGGAAGG
CAGTCGAGGCTTCAGGGGACAGCGGGACGGAAACAGAAAGATTAGAGGACAGCGGGAAGGCAGTAGAGGCCGAG
AGGACAGCGATCAGGAGGTGGCAACAAAAGTAACAGATCCCAAAACAAAGGCCAGAAAGCGAGTTTCAGTAAAGC
ATTTGGTCAATTAATTAGAAATAGAAGATTTATATAGCAAAAAGAGAATGATGTTTGCAATATAGAAGTGAACAT
TATTTTTCATGCAAAGTTAAAGCACATTGTGCCTCCTTTGACCACTTGCCAAGTCCCTGTCTCTTCAGACAC
AGACAAGCTTCATTTAAATTTATCTGATCATTATCATTATAACTTTATTGTTACTTCATCAGTTTTCTCT
TTTGAAAGGTGATGAATTCATTATTTTATTCTAATGTATTATCTGTAGATTAGAAGATAAAATCAAGCATG
TATCTGCCTATACTTTGTGAGTTCACCTGTCTTTATACTCAAAGTGTCCCTTAATAGTGTCTTCCCTGAAATA
AATACCTAAGGGAGTGAACAGTCTCTGGAGGACCATTGAGCCTTTGGAAGTTAAGGTTTCTCAGCCACCTG
CCGAACAGTTTCTCATGTGGTCTTATTATTGTTCTACTGAGACTTAATACTGAGCAATGTTTTGAAACAAGATT
CAAAC TAATCTGGGTGTAATACAGTTTATACCAGTGTATGCTCTAGACTTGGAAGATGTAGTATGTTTGTG
GATTACCTATACTTATGTTCTGTTTGTATACATTTTAGCTTCTCATTATAAGGTGATTGCTGTTTGTGTAATC
TTCATAGATAGTATATATAAAGTACATTTTAAAGAAAGCCAGGGTTTTAAGGAATTTACATGTATAAGGTGG
CTCCATAGCTTTTATTGTAAGTAGGCTGGATAAATGGTGCTTAAATGGTAATGTACTCCACTTCTTCTATTGGA
AGATTAACATTATTTACCAAGAAGGACTTAAGGGAGTAAGGGGCGCAGATTAGCATTGCTCAAGAGTATGTA
AAAAA

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FIGURE 693

MNSPKSKKAKKKEEPSQNDISPKTSLRKKKEPIEKKVVSSKTKKVTKNEEPSEEEIDAPKPKMKKEKEMNGET
REKSPKLKNGFPHPEDCNPSEAASEESNSEIEQEIPVEQKEGAFSNFPISEETIKLLKGRGVTFLEPIQAKTFH
HVYSGKDLIAQARTGTGKTFSAIPLIEKLHGELQDRKRGRAPQVLVLAPTRELANQVSKDFSDITKKLSVACFY
GGTPYGGQFERMRNGIDILVGTPGRIKDHIQNGKLDLTKLKHVVLEVDQMLDMGFADQVEEILSVAYKKDSEDN
PQTLLFSATCPHWVFNVAKKYMKSTYEQVDLIGKKTQKTAITVEHLAIKCHWTQRAAVIGDVIRVYSGHQGRTH
FCETKKEAQELSONSAIKQDAQSLHGDIPQKQREITLKGFRNGSFGVLVATNVAARGLDIPEVDLVIQSSPPKDV
ESYIHRSGRTGRAGRTGVCICFYQHKEEYQLVQVEQKAGIKFKRIGVPSATEIIKASSKDAIRLLDSVPPTAISH
FKQSAEKLIEKGAVEALAAALAHISGATSVDQRSLINSNVGFVTMILQCSIEMPNISYAWKELKEQLGEEIDSK
VKGMVFLKGKLGVCFDVPTASVTEIQEKWHDSTRWQLSVATEQPELEGPREGYGGFRGQREGSRGFRGQRDGNRR
FRGQREGSRGPRGQRSGGKNKSNRSQNGQKRSFSKAFGQ

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FIGURE 694

CCGCTGTCAAGATGCTTCTGGCCATGGTCCTTACCTCTGCCCTGCTCCTGTGCTCCGTGGCAGGCCAGGGGTGTC
CAACCTTGGCGGGGATCCTGGACATCAACTTCCTCATCAACAAGATGCAGGAAGATCCAGCTTCCAAGTGCCACT
GCAGTGCTAATGTGACCAGTTGTCTCTGTTTGGGCATTCCCTCTGACAACCTGCACCAGACCATGCTTCAGTGAGA
GACTGTCTCAGATGACCAATACCACCATGCAAACAAGATACCCACTGATTTTCAGTCGGGTGAAAAAATCAGTTG
AAGTACTAAAGAACAACAAGTGTCCATATTTTTCCGTGAACAGCCATGCAACCAAACACGGCAGGCAACGCGC
TGACATTTCTGAAGAGTCTTCTGGAAATTTCCAGAAAGAAAAGATGAGAGGGATGAGAGGCAAGATATGAAGAT
GAAATATTATTTATCCTATTTATTAAATTTAAAAAGCTTCTCTTTAAGTTGCTACAATTTAAAAATCAAGTAAG
CTACTCTAAATCAGTATCAGTTGTGATTATTTGTTTAACATTGTATGTCTTTATTTTGAATAAAT

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FIGURE 695

MLLAMVLTSALLLCVAGQGCPITLAGILDINFLINKMQEDPASKCHCSANVTSCLCGLIPSDNCTRPCFSERLSQ
MTNTTMQTRYPLIFSRVKKSVEVLKNNKCPYFSCEQPCNQTTAGNALTFLKSLEIFQKEKMRGMRGKI

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FIGURE 696

CGATTTTCATTCTCGCTCCCCACAGGTCCCTCTCCCCAAAATATTCCCATCTTGTCTAGCCCATCCCCAGACT
ATCTCAAGGACCAGCTGTCCCCACGCCCCGACCTCCACTAGGCCTGTGCCACCCGCTGCCTGCAGGAAGACGCC
CGGTCCCCGGGCGGGTTAGCCCCATGGGAACGCAGCGCCTGTGTGGCCGCGGGACTCAAGGCTGGCCTGGCTCAA
GTGAACAGCACGTCCAGGAGGCGACCTCGTCCGCGGGTTTGCATTCTGGGGTGGACGAGCTGGGGGTTTCGGTCCG
AGCCCGGTGGGAGGCTCCCGAGCGCAGCCTGGGCCAGCCACCCCGCGCCGGCGGCCATGGCAGGCACCCCTGG
ACCTGGACAAGGGCTGCACGGTGGAGGAGCTGCTCCGCGGGTGCATCGAAGCCTTCGATGACTCCGGGAAGGTGC
GGGACCCGCAGCTGGTGCATGTTCCTCATGATGCACCCCTGGTACATCCCTCCTCTCAGCTGGCGGCCAAGC
TGCTCCACATCTACCAACAATCCCGGAAGGACAACCTCCAATTCCTGCAGGTGAAAACGTGCCACCTGGTCAGGT
ACTGGATCTCCGCCTTCCAGCGGAGTTTGACTTGAACCCGGAGTTGGCTGAGCAGATCAAGGAGCTGAAGGCTC
TGCTAGACCAAGAAGGGAACCGACGGCACAGCAGCCTAATCGACATAGACAGCGTCCCTACCTACAAGTGAAGC
GGCAGGTGACTCAGCGGAACCTGTGGGACAGAAAAAGCGCAAGATGTCCCTGTTGTTTGACCACCTGGAGCCCA
TGGAGCTGGCGGAGCATCTCACCTACTTGGAGTATCGCTCCTTCTGCAAGATCCTGTTTTCAGGACTATCACAGTT
TCGTGACTCATGGCTGCACTGTGGACAACCCCGTCTCGGAGCGGTTTCATCTCCCTCTTCAACAGCGTCTCACAGT
GGGTGCAGCTCATGATCCTCAGCAAACCCACAGCCCCGAGCGGGCCCTGGTTCATCACACACTTTGTCCACGTGG
CGGAGAAGCTGTACAGCTGCAGAACTTCAACACGCTGATGGCAGTGGTTCGGGGGCTGAGCCACAGCTCCATCT
CCCGCCTCAAGGAGACCCACAGCCACGTTAGCCCTGAGACCATCAAGCTCTGGGAGGGTCTCACGGAACTAGTGA
CGGCGACAGGCAACTATGGCAACTACCGGCGTTCGGCTGGCAGCCTGTGTGGGCTTCCGCTTCCCGATCCTGGGTG
TGCACCTCAAGGACCTGGTGGCCCTGCAGCTGGCACTGCCTGACTGGCTGGACCCAGCCCGGACCCGGCTCAACG
GGGCCAAGATGAAGCAGCTCTTTAGCATCCTGGAGGAGCTGGCCATGGTGACCAGCCTGCGGCCACCACTACAGG
CCAACCCCGACCTGCTGAGCCTGCTCACGGTGTCTCTGGATCAGTATCAGACGGAGGATGAGCTGTACCAGCTGT
CCCTGCAGCGGGAGCCGCGCTCCAAGTCTCGCCAAACAGCCCCACGAGTTGCACCCCAACCCCGGCCCCCGG
TACTGGAGGAGTGGACCTCGGCTGCCAAACCAAGCTGGATCAGGCCCTCGTGGTGGAGCACATCGAGAAGATGG
TGGAGTCTGTGTTCCGGAACCTTGACGTGATGGGGATGGCCACATCTCACAGGAAGAATTCCAGATCATCCGTG
GGAACCTTCCCTTACCTCAGCGCCTTTGGGGACCTCGACCAGAACCAGGATGGCTGCATCAGCAGGGAGGAGATGG
TTTCCTATTTCTGCGCTCCAGCTCTGTGTTGGGGGGCGCATGGGCTTCGTACACAACCTTCCAGGAGAGCAACT
CCTTGCGCCCCGCTCGCTGCCGCCACTGCAAAGCCCTGATCCTGGGCATCTACAAGCAGGGCCTCAAATGCCGAG
CCTGTGGAGTGAAGTCCACAAGCAGTGCAAGGATCGCCTGTGAGTTGAGTGTGCGCGCAGGGCCAGAGTGTGA
GCCTGGAGGGGTCTGCACCTCACCTCACCCATGCACAGCCACCATACCGCGCCTTCAGCTTCTCTCTGCCCC
GCCCTGGCAGGCGAGGCTCCAGGCCTCCAGAGATCCGTGAGGAGGAGGTACAGACGGTGGAGGATGGGGTGTGTTG
ACATCCACTTGTAAATAGATGCTGTGGTTGGATCAAGGACTCATTCTGCCTTGGAGAAAATACTTCAACCAGAGC
AGGGAGCCTGGGGGTGTGCGGGCAGGAGGCTGGGGATGGGGTGGGATATGAGGGTGGCATGCAGCTGAGGGCAG
GGCCAGGGCTGGTGTCCCTAAGGTTGTACAGACTCTTGTGAATATTTGTATTTTCCAGATGGAATAAAAAGGCCC
GTGTAATTAACCTTCA

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FIGURE 697

MGTQRLCGRGTQGWPGSSEQHVQEATSSAGLHSGVDELGVRSEPGGRLPERSLGPAPAPAAAGTLDLDKGCTV
EELLRGCI EAFDDSGKVRDPQLVRMFLMMHPWYIPSSQLAAKLLHIYQQSRKDNSNSLQVKTCHLVRYWISAFPA
EFDLNP ELAEQIKELKALLDQEGNRRHSSLIDIDSVP TYKWK RQVTQRNPVGQKKRKMSLLFDHLEPMELAEHLT
YLEYRSFCKILFQDYHSFVTHGCTVDNPNVLERFISLFNSVSQWVQLMILSKPTAPQRALVITHFVHVAEKL LQLQ
NFNTLMAVVGGLSHSSISRLKETHSHVSPETIKLWEGLTELV TATGNYGNYRRRLAACVGFRFPILGVHLKDLVA
LQLALPDWLDPARTRLNGAKMKQLFSILEELAMVTS LRPPVQANPDLLSLLTVSLDQYQTEDELYQLSLQREPRS
KSSPTSPTSCTPPPPPPVLEEWTSAAKPKLDQALVVEHIEKMVESVFRNFDVDGDGHISQEEFQIIRGNFPYLSA
FGDLDQNQDGCISREEMVS YFLRSSSVLGGRMGFVHNFQESNSLRPVACRHCKALILGIYKQGLKCRACGVNCHK
QCKDRLSVECRRAQSVSLEGSAPSPSPMHS HHRAFSFSLPRPGRRGSRPPEIREEEVQTVEDGVFDIHL

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FIGURE 698A

AGCTTGAGCGCGGCGGCGGCGTGTTCAGTCAGAGCGAGAACATTCCAGAGGTCGCCCAGCTCCGGCGCTGACGG
GTGTGGACCGCGGACGTCGCTGGGACAGCCCCTCCCCGCTGCTCGGCGGCGGCATCTGGCCCGGCGCTCCTCGC
TGCGCTTCGCCTCCGCCTCCTCGGACTCGGACTCGGGTTTATATCGCGCCTCACTTCATCCAGTCCCGGCGAG
CAGCGTTGGGTTTATGTCCTTTATTTGACGAAAACGAGCTGTTGCGCAGCCATTGGTACCTGTATTGGGAAACAT
AGCATACAAGCAAGAAGCTTACAGCCTCAGTGGCGAAAATTTTTTCATGTGAGAGCCGAGAAGCTTTCAGTGC
TTTATGTCATCCCTTCTTCTCCAGACAGAAGATACCAAAAAGTTGCAATCAAAGATCTCTTCATCTTATTGATAA
AGCCACTAATAAGCCAAAATGTCGTCAATGTCAACCGCAGCGTGTGAGACCAGTTCTATCGCTACAAGATGCCC
CGTCTGATTGCCAAGGTTGAGGGCAAAGGCAATGGAATCAAGACAGTTATAGTCAACATGGTTGACGTTGCAAAG
GCGCTTAATCGGCTCCAACGTATCCCACCAAATATTTGGTTGTGAGCTGGGAGCACAGACCCAGTTTGATGTT
AAGAATGACCGTTACATTGTCAATGGATCTCATGAGGCGAATAAGCTGCAAGACATGTTGGATGGATTCAATAA
AAATTTGTTCTGTCTGAATGTGAGAATCCTGAAACAGATTTGCATGTCAATCCAAAGAAGCAAACAATAGGT
AATTCCTGTAAAGCCTGTGGCTATCGAGGCATGCTTGACACACATCATAAACTCTGCACATTCATTCTCAAAAC
CCACCTGAGAATAGTGACAGTGGTACAGGAAAGAAAGAAAAGAAAAGAAAACAGAAAGGGCAAAGACAAGGAA
AATGGCTCCGTATCCAGCAGTGAGACACCACCACCACCACCACCACAAATGAAATTAATCCTCCTCCACATACA
ATGGAAGAAGAGGAGGATGATGACTGGGAGAGATACTGAGGAAGCTCAAAGGCGTGAATGGATGAAATC
AGTGACCATGCAAAAGTTCTGACACTCAGTGATGATTTGGAAGAACAATTGAGGAGAGGGTCAATATCCTCTTT
GATTTTGTAAAGAAAAGAAAGAGAGGGTGTATTGATTCACTGACAAAGAAATCGTTGCTGAAGCAGAAAGA
CTGGATGTAAAGCCATGGGCCCTCTTGTCTAACTGAAGTTCTTTTTAATGAGAAGATTAGAGAACAGATTAG
AAATACAGGCGCCATTTTCTACGATTTTGTCAACAACAACAAAAGGCCAACGGTACCTTCTTCATGGTTTGGAG
TGTGTGGTAGCAATGCATCAAGCTCAGCTTATCTCCAAGATTCACATATCTTGAAGGAGATGACGATGCAGAC
CTTTTAGAAGAAGAGGTCATCATCAGCTGGTCGGAAGAGGCTCTAAGAAATATGTCTCCAAAGAACTTGCCAAA
GAGATTCGTGTCAAAGCAGAACCATTTATAAAATGGTTGAAGGAGGCAGAGGAAGAATCTTCTGGTGGCGAAGAA
GAAGATGAAGATGAGAACATTGAGGTGGTGTATTCGAAGGCTGCCAGTGATACCGAAAGTTGAGACTGTAAAGTCA
GACAACAAGGATGACGACATCGATATTGATGCCATTTAAAGGGATGGATGCAACCTAGCTTAACAGTATAATGCT
GCAAAATTTTCTCCATTATCAGCCAGAAGTGCAACATGTATGTGCAAAAGCTAAATGGCTTAACATCATGCTAC
ACTTTACACTAAAATCTATTACTGTGAGTGGTCTGTTATTAAGCCCAATGAGACATCTAGGGAGTCCATACACA
TCAGTGAGCAGATGTAGTTTGCTTATTTATAGCATGTTTCTTTTGAAGAACTAGTGGTGGACACATTTGGATCA
CATTTATACAGTTATAAAAATAAAGGTTTGATTTTGGTCTGTTCTTCAGATGTTTGGCTCTGAATGACTTAAGCTG
AAGTAACGTGGCTCCTTACTTTAAATGTTCTGCCATCATTTACCTGATGAGCATTCTTGGAGCCTGCCAGATATT
GTTAGGTCCTGGGCTGCAAAGAGGTCTCAACAGGATGTAAAGCAAACCTAATTGTAATTAATTTATTCAGCCC
ATTAAGAAAGTACTAAAGTTTATCTCTGTAGTTCCTCAAATTGGCATCTGGTAATGTACATTGTGAGGTAGACT
GATAATGAAATGACAGTGCAACATCTTAACCAAGAAGTAAATATGACCTCAGTGTCTATAAATAATGTAAGAGC
AGGATTGAAACTTGAGAGAGCTGTTTCTCATTTTCACTGACCTTGCCCCAAATGTCTTTGAAGTCGTGTGCAT
TGCACGTTGGATGAGCCAGGGAATTAATACATTAACAAGCATTGTGTGTGCGTAGTAGTTACTTTGTACTGA
GAGAACTTGCTTTGGGGTGCAATTAACAATAAACTGATTTTATTGGGAGAAACAAGGAAGGGTGCACTTAAC
AGCAACCTAAGCATGATTTTTTACGCTTTTGCCCTTAGGGTTTAAATTACAATTCAAAATGTTAGACATACTGTA
TTTTTTCGTTTCACTGTGGCTTTAATTTTCCCCTCTTGCACTTTGTTCTGTAATGCCTTTTACATTTGGACACATA
GTTTATGCTTTTTTAGATTTTGGTTGCTTTCTTGCCAAAATAAGTGTAACTGTGTTTCAAACCTGATTTCTTTT
TTTTTCTTTTTTTTTCTTCCAGAAATGTCTTATTTAAAAAGAAAGCTAAAAGCATACTTCTAAGTCAGAGCCTCT
ATTTTGGTGAAGACTTGGGATATTTTTTACTTCACATTGAATATAGCCAGGCACCCAAGAAGTCTGATGGCCAC
CTGAGTGACAGGTGACAAGGACCTGACAGAGCCCATGACAGGGCTTTAGATTGGACACACAAGAGTTGATAACTTC
CTCATGAACTCCTTGCCGTGATCTAACTCATATTATGGGTTCTGACTGTTTGAATCGTCTTCAAGGTTAAAC
CTCTTGGCAGTTACCTTTTCAAAAGTGACAGTGGGAATCGAGAAATCGATAGGGTTAATTTTGGAGCAGTGGC
TTATACCATTCACCTCTGTTTTTTTGTGATTATTTACAGATAATGAGACCTTAATAACAAATAGGCGTAAAAAA
ATTTTACATTGAAATGATAGAAACATTTGATGTAATAAACTTGGTTGGCTTGATATTTAAGGAATTGAAACC
TAGCAATCTTATTGGAGAGACAAGAATTGGTCTCCAGCTGCCCTTGTATCAAGATTCGGGTGCAAGTGGAGCAGGA
GCCATATACCTGGAGGGAATGTGCTTTGTACACCAAGAGGATTTTTTTTTTCTTCAAACCTGTATGTTGCCCTA
GGTTTCAAATCTTTGCGCGAAGGCTGATCTGCTTTCAATTAACCTGGAATCTGTAGGAGATACTGGTGACCTAAG

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FIGURE 698B

CTAAGTTGCACTCAGCATACTCAGTGTCAAGCTAATGAGGTTCTATTATAAAGGTTCTACTTTTAATCTGAGGGA
AAACATGTTTCAGGGCTTCTAGAACACTAAAAAATTTGGCTTAAACCAGTGTTCAGTCTGGTGCCAACTTCGAAT
GGAATACAAATTCACATAATCTGAACTTTGTTTCACAGGTTATCCTAATAGAGTAATTCTTCACTTTGCTCTATTG
AACTGTCTTAAGGATTTGTTTAAACAGCTAAGTTACTTGATTAAAATAATGATAAAATTGTAAAAAAAAAAAAA

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FIGURE 699

MSVNVNRSVSDQFYRYKMPRLIAKVEGKGNGIKTVIVNMVDVAKALNRPTYPTKYFGCELGAQTQFDVKNDRI
VNGSHEANKLQDMLDGFIKKFVLCPECENPETDLHVNPKKQTI GNSCKACGYRGMLDTHHKLCTFILKNPPENS
SGTGKKEKEKKNRKGKDKENGVSSETPPPPPPNEINPPHTMEEEEDDWGEDTTEEAQRRRMDEISDHAKV
LTLSDDLERTIEERVNILFDVKKKKEEGVIDSSDKEIVAEERLDVKAMGPLVLTEVLFNEKIREQIKKYRRHF
LRFCHNNKKAQRYLLHGLECVAMHQAQLISKIPHILKEMYDADLLEEEV IISWSEKASKKYVSKELAKEIRVKA
EPFIKWLKEAEEESSGGEEDENIEVVYKAASVPKVETVKS DNKDDIDIDAI

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FIGURE 700

GGGGCGGGGAGCGGACTTCCTCCTCTGAGGGCCGTGCCGCGCTGCCAGATTGTTCCTCCGCCCTGCCTCCGCG
GCTCGGAGCGAGCGGAAGGTGCCCCGGGGCCGAGGCCCGTGACGGGGCGGGCGGGAGCCCCGGCAGTCCGGGGT
CGCCGGCGAGGGCCATGTCGCTGTTGGGGGACCCGCTACAGGCCCTGCCGCCCTCGGCCGCCCCACGGGGCCGC
TGCTCGCCCTCCGGCCGGCGGACCCTCAACCGCCTGCGGGAGCCGCTGCTGCGGAGGCTCAGCGAGCTCCTGG
ATCAGGCGCCCCGAGGGCCGGGCTGGAGGAGACTGGCGGAGCTGGCGGGGAGTCGCGGGCGCCTCCGCCTCAGTT
GCCTAGACCTGGAGCAGTGTTCCTTAAGGTACTGGAGCCTGAAGGAAGCCCCAGCCTGTGTCTGCTGAAGTTAA
TGGGTGAAAAAGGTTGCACAGTCACAGAATTGAGTGATTTCTGCAGGCTATGGAACACACTGAAGTTCTTCAGC
TTCTCAGCCCCCAGGAATAAAGATTACTGTAAACCCAGAGTCAAAGGCAGTCTTGGCTGGACAGTTTGTGAAAC
TGTGTTGCCGGGCAACTGGACATCCTTTTGTCAATATCAGTGTTCAAAATGAATAAAGAGATTCCAAATGGAA
ATACATCAGAGCTTATTTTTAATGCAGTGCATGTAAAGATGCAGGCTTTTATGTCTGTGAGTTAATAACAATT
TCACCTTTGAATTCAGCCAGTGGTCACAGCTGGATGTTTGCACATCCAGAGAGCTTCCAGAGAAGTGTGATG
GCGTCTCTGAATCCAAGTTGCAAACTCTGTGTTGAACCAACTTCCCAAAGCTGATGCCAGGCAGCACATTGGTTT
TACAGTGTGTGTGTTGGAAGCCCTATTCTCTACTACCAGTGGTTCAAAATGAATTACCATTAAACACATGAGA
CCAAAAGCTATACATGGTGCTTATGTGGATTGGAACACCAAGGAACCTACTGGTGTCTATATATAATGATC
GAGACAGTCAAGATAGCAAGAAGGTAGAAATCATCATAGGAAGAACAGATGAGGCAGTGGAGTGCCTGAAGATG
AATTAATAATCTTGGTCATCCTGATAATAAAGAGCAAACAACCTGACCAGCCTTTGGCGAAGGACAAGGTTGCC
TTTTGATAGGAAATATGAATTACCGGAGCACCCCAAGCTCAAAGCTCCTTTGGTGGATGTGTACGAATTGACTA
ACTTACTGAGACAGCTGGACTTCAAAGTGGTTTCACTGTTGGATCTTACTGAATATGAGATGCGTAATGCTGTGG
ATGAGTTTTTACTCCTTTTAGACAAGGGAGTATATGGGTTATTATATTATGCAGGACATGGTTATGAAATTTTG
GGAACAGCTTCATGGTCCCCGTTGATGCTCCAAATCCATATAGGTCTGAAATTTGTCTGTGTACAAAATATAC
TGAAATTGATGCAAGAAAAAGAACTGGACTTAATGTGTCTTATTGGATATGTGTAGGAAAAGAAATGACTACG
ATGATACCATTCCAATCTTGGATGCACTAAAAGTCACCGCCAATATTGTGTTGGATATGCCACGTGTCAAGGAG
CAGAAGCTTTTGAAATCCAGCATTCTGGATTGGCAATGGAATCTTTATGAAATTTTAAAGACAGATTATTAG
AAGATAAGAAAATCACTGTGTTACTGGATGAAGTTGCAGAAGATATGGGTAAGTGTACCTTACCAAAGGCAAAC
AGGCTCTAGAGATTCTGAAGTAGTTTATCTGAGAAGAGAGCACTTACTGATCCAATACAGGGAACAGAATATTCTG
CTGAATCTCTTGTGCGGAATCTACAGTGGGCCAAGGCTCATGAACTTCCAGAAAGTATGTGTCTTAAGTTGACT
GTGGTGTTCAGATTCAATTAGGATTTGCAGCTGAGTTTCCAATGTCATGATCATCTATACAAGTATAGTTTACA
AACCACCGGAGATAATAATGTGTGATGCCTACGTTACTGATTTTCCACTGATCTAGATATTGATCCAAAGATG
CAAATAAAGGCACACCTGAAGAACTGGCAGCTACTTGGTATCAAAGGATCTTCCCAAGCATTGCCTCTATACCA
GACTCAGTTCACTGCAAAATTAAGGAACATCTAGTCTTCACAGTATGTTATCATATCAGTACTCAGGATTGG
AAGATACTGTAGAGGACAAGCAGGAAGTGAATGTTGGGAAACCTCTCATTGCTAAATTAGACATGCATCGAGGTT
TGGGAAGGAAGACTTGCTTTCAAACCTTGTCTTATGTCTAATGGTCCTTACCAGAGTTCTGCAGCCACCTCAGGAG
GAGCAGGGCATTATCACTCATTGCAAGACCCATTCCATGGTGTTTACCATTACATCCTGGTAATCCAAGTAATG
TTACACCAGCAGATAGCTGTCATTGCAGCCGACTCCAGATGCATTTATTTCAAGTTTCGCTCACCATGCTTCAT
GTCATTTTAGTAGAAGTAATGTGCCAGTAGAGACAACCTGATGAAATACCATTAGTTTCTCTGACAGGCTCAGAA
TTTCTGAAAAATGACCTCCTTGTTTTGAAAGTTAGCATATTTTAGATGCGTGTGAAATAGTACTGCATTACA
TAAAGTGAGACATTGTGAAAAGGCAAATTTGTATATGTAGAGAAAGAATAGTAGTAACTGTTTCATAGCAAACCT
CAGGACTTTGAGATGTTGAAATTACATTATTTAATTACAGACTTCCTCTTTCT

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FIGURE 701

MSLLGDPLQALPPSAAPTGPILLAPPAGATLNRLREPLLRLSELDDQAPEGGRWRRLAELAGSRGRLRLSCLDLE
QCSLKVLEPEGSPSLCLLKLMGEKGCTVTELSDFLQAMEHTEVLQLLSPPGIKITVNPESKAVLAGQFVKLCCRA
TGHFVQYQWFKMNKEIPNGNTSELIFNAVHVKDAGFYVCRVNNNFTFEFSQWSQLDVCDIPESFQRSVDGVSES
KLQICVEPTSQKLMPGSTLVLCVAVGSPIPHYQWFKNELPLTHETKKLYMVPYVDLEHQGTYWCHVYNDRDSQD
SKKVEIIIGRTDEAVECTEDELNNLGHPDNKEQTTDQPLAKDKVALLIGNMNYREHPKLKAPLVDVYELTNLLRQ
LDFKVVSLDLTEYEMRNAVDEFLLLLDKGVYGLLYYAGHGYENFGNSFMVPVDAPNPFYRSENCLCVQNILKLMQ
EKETGLNVFLLDPCRKRNDYDDTIPILDALKVTANIVFGYATCQGAFAFEIQHSGLANGIFMKFLKDRILLEDKKI
TVLLDEVAEDMGKCHLTGKQKQALEIRSSLSEKRALTDPIQGTEYSAESLVRNLQWAKAHELPESMCLKFDGCVQI
QLGFAAEFSNVMIITYTSIVYKPPEIIMCDAYVTDFFLDLDIDPKDANKGTPEETGSYLVS KDLPKHCLYTRLSSL
QKLKEHLVFTVCLSYQYSGLEDTVEDKQEVNVGKPLIAKLDMHRGLGRKTCFQTCLMSNGPYQSSAATSGGAGHY
HSLQDPFHGVYHSHPGNPSNVTPADSCHCSRTPDAFISSFAHSHASCHFSRSNVPVETTDEIPFSFSDRLRISEK

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FIGURE 702

ATGAGCAGGGACGAGCGAGACGCCAAAGCCATGCGGTCCCTGCAGCCGCCGATGGGGCCGGCTCGCCCCCGAG
AGTCTGAGGAACGGCTACGTGAAGAGCTGCGIGAGCCCCCTGCGGCAGGACCCTCCGCGCGGCTTCTTCTCCAC
CTCTGCCGCTTCTGCAACGTGGAGCTGCGGCCGCCGCCGCCCTCTCCAGCAGCCGCGGCGCTGCTCCCCCTTC
TGCCGGGCGCGCCTCTCGCTGGGCGACCTGGCTGCCTTTGTCTCGCCCTGCTGCTGGGAGCGGAACCCGAGAGC
TGGGCTGCCGGGGCCGCTGGCTGCGGACGCTGCTGAGCGTGTGTTTCGCACAGCTTGAGCCCCCTCTTCAGCATC
GCCTGTGCCTTCTTCTTCTCACCTGCTTCTCACCCGACCAAGCGGGGACCCGGCCCGGGCCGGAGCTGCGGC
TCTGTGGCTGCTGCGGCTGCCCCGCTGCTGTTACCTGGGGGACTTCTTGGTGTGGCAGTGGTGGTCTTGGCCT
TGGGGGATGGCGACGCAGGGTCCGCGGCCCGCACACGCCCGGAGGCGGCAGCGGGCAGGTTGCTGCTGGTG
CTGAGCTGCTAGGGCTGCTGCTGACGCTCGCGCACCCGCTGCGGCTCCGGCACTGCGTTCTGGTGTGCTCCTG
GCCAGCTTCGTCTGGTGGGTCTCCTTACCAGCCTCGGGTCTGCTGCCCTCCGCCCTCAGGCCGCTGCTCTCCGGC
CTGGTGGGGGGCGCTGGCTGCCTGCTGGCCCTGGGGTTGGATCACTTCTTCAAATCAGGGAAGCGCCTCTTCAT
CCTCGACTGTCCAGTGCCGCCGAAGAAAAAGTGCCTGTGATCCGACCCCGGAGGAGGTCCAGCTGCGTGTCTTA
GGAGAACTGCAGCCAGTTACTATGGCAGTTGCAAAATATTAGGAGACCGTCGTTGCCTTGATTTCCAGAGAA
CAGATGATTTCTTGGGATTGGGACTTAAACAATGGTATAAGCCTCATTATCAAAATCTGGAGGTGGAATGGA
GTTGATCTTTCAGTGCTAAATGAGGCTCGCAATATGGTGTGAGATCTTCTGACTGATCCAAGCCTTCCACCACAA
GTCAITTCCTCTCTACGGAGTATTAGTAGCTTAATGGGTGCTTCTCAGGTTCTGTAGGCCAAAGATTAATCCT
CTCACACCATTCTCTGGATTTTACCCTGTCTGAAATAGAGGACCCAGCTGAGAAAGGGGATAGAAAATTAAC
AAGGGACTAAATAGGAATAGTTTGCCAACCTCCACAGCTGAGGAGAAGCTCAGGAACCTCAGGATTGCTACCTGTT
GAACAGTCTTCAAGGTGGGATCGTAATAATGGCAAAAGGCCTCACCAGAATTGGCATTTCAGTCAAGGATGC
TATCTAAATGGGCCTTTTAATTCAAATCTACTGACTATCCCGAAGCAAAGGTCACTTCTGTATCACTGACTCAC
CATGTAGGTCTCAGAAGAGCTGGTGTGTTTGTCCAGTCTGAGTCTGTGAATTCTTCAACCATGGACCAGTGTCT
ACTGGCTCTCTAACTAATCGATCACCCATAGAATTTCTGATACTGCTGATTTTCTTAATAAGCCAAGCGTTATC
TTGCAGAGATCTCTGGCAATGCACCTAATACTCCAGATTTTTATCAGCAACTAGAAATCTGATAGCAATCTG
TGTAACAGCTGTGGACATCAATGCTGAAATATGTTCAACATCTGAATCAGATGGTACAGATTGCTGCAGTGGAA
AAATCAGGTGAAGAAGAAAACATTTCTCGAAAGAATCATTCAAACCTATGGAACTCAACAAGAAGAGGAAACA
GAGAAGAAAGACAGCAGAAAATTTTTCAGGAAGGTGATAAGTGGCTAACAGAAGAGGCACAGAGTGAACAGCAA
ACAAATATTGAACAGGAAGTATCACTGGACCTGATTTTAGTAGAAGAGTATGACTCATTAAATAGAAAAGATGAGC
AACTGGAATTTTCAAATTTTGAACCTGTAGAAAAGATGGGAGAGAAATCAGGAAGGATTCTCAGTCAGGTTATG
TATACCTTATTTCAAGACACTGGTTTATTGGAATATTTAAATTTCCCACTCAACAATTTATGAACTATTTTCGT
GCATTAGAAAATGGCTATCGAGACATTCCTTATCACAATCGTATACATGCCACAGATGTGCTACATGCAGTTTGG
TATCTGACAACACGGCCAGTTTCTGGCTTACAGCAGATCCACAATGGTTGTGGAACAGGAAATGAAACAGATTCT
GATGGTAGAATTAACCATGGGCGAATTGCTTATATTCTTTCGAAGAGCTGCTCTAATCCTGATGAGAGTTATGGC
TGCCTGTCTTCAAACATTCCTGCATTAGAATTGATGGCTCTATACGTGGCAGCTGCCATGCATGATTATGATCAC
CCAGGGAGGACAAATGCATTTCTAGTGGCTACAAATGCCCTCAGGCAGTTTTATACAATGACAGATCTGTTCTG
GAAAATCATCATGCTGCGTCAGCTTGGAACTATATCTTTCTCGCCGAGAATACAACCTTCCTTCTCATCTTGAT
CATGTGGAATTCAGCGCTTTTCGTTTTTAGTCATTGAAGCAATCCTTGCTACGGATCTTAAAAAGCATTTTGAT
TTTCTCGCAGAATTCAATGCCAAGGCAATGATGTAATAGTAATGGCATAGAATGGAGTAATGAAAATGATCGC
CTCTTGGTATGCCAGGTGTGCATCAAACCTGGCAGATATAAATGGCCAGCAAAAGTTCCGAGACTTGCATTTGAAA
TGGACAGAAGGCATGTCAATGAATTTTATGAGCAGGGAGATGAAGAAGCAAATCTTGGTCTGCCCATCAGTCCA
TTCATGGATCGTTCTTCTCCTCACTAGCAAACTCCAAGAATCTTTATCACCCACATAGTGGTCCCCCTGTGT
AACTCCTATGATGCTGCTGGTTTGGTACCAGGTCAGTGGTTAGAAGCAGAAGAGGATAATGATACTGAAAGTGGT
GATGATGAAGACGGTGAAGAATTAGATACAGAAGATGAAGAAATGGAACAATCTAAATCCAAACCACCAAGA
AGGAAAAGCAGACGGCGAATATTTTGTACGTAATGCACCACCTCACTGAAAACCACAAGATATGGAAGGAAATC
GTAGAGGAAGAAGAAAAATGTAAAGCTGATGGGAATAAATGCAGGTGGAGAATTCCTCCTTACCTCAAGCAGAT
GAGATTCAGGTAATTGAAGAGGCAGATGAAGAGGAATAG

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FIGURE 703

MRRDERDAKAMRSLQPPDGAGSPPESLRNGYVKSCVSPLRQDPPRGFFFHLCRFCNVELRPPASPQQPRRCSPF
CRARLSLGDAAFLVALLLGAEPESWAAGAAWLRTLLSVCSHLSPLFSIACAFFFLTCLTRTKRGPGPGRSCG
SWWLLALPACCYLGDFLVWQWWSWPWGDGDAGSAAPHTPPEAAAGRLLLVLSCVGLLLTLAHLRLRHCVLVLLL
ASFVWWVSFTSLGSLPSALRPLLSGLVGGAGCLLALGLDHFFQIREAPLHPRLSAAEEKVPVIRPRRRSSCVSL
GETAASYYGSKIFRRPSLPCISREQMILWDWDLKQWKPHYQNSGGGNGVDLSVLNEARNMVSDLLTDPSPFPQ
VISSLRSISSLMGAFSGSCRPKINPLTPFPGFYPCSEIEDPAEKGDRKLNKGLNRNSLPTQLRRSSGTSGLLPV
EQSSRWDRNNGKRPHQEFGISSQGCYLNPFNSNLLTIPKQRSSSVSLTHHVGLRRAGVLSSLSPVNSSNHGPVS
TGSLTNRSPIEF PDTADFLNKPSVILQRSLGNAPNTPDFYQQLRNSDSNLCNSCGHQLKYVSTSESDGTDCCSG
KSGEEENIFSKESEFKLMETQEEEEKEDSRKLFQEGDKWLTEEAQSEQQTNIEQEVSLDLILVEEYDSLIEKMS
NWNFPFIFELVEKMGESGRILSQVMTLFDQTGLLEIFKIPTQQFMNYFRALENGYRDIYPHNRIHATDVLHAVW
YLTRPVPGLOQIHNCGGTGNETDSDGRINHGRIAYISSKSCSNPDESYGCLSSNIPALELMALYVAAAMHDYDH
PGRTNAFLVATNAPQAVLYNDRSVLENHHAASAWNLYLSRPEYNFLHLDHVEFKRFRLVIEAILATDLKKHFD
FLAEFNAKANDVNSNGIEWSNENDRLVCQVCIKLADINGPAKVRLHLKWTEGIVNEFYEQGDEEANLGLPISP
FMDRSPQLAKLQESFITHIVGPLCNSYDAAGLLPGQWLEAEEDNDTESGDDEDEELDEDEEMENNLNPKPPR
RKSRRRIFCQLMHHLTENHKIWKEIVEEEKCKADGNKLQVENSLLPQADEIQVIEEADDEE

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FIGURE 704

CCATTCTTCTCCCGGGAGCCCTCATCTATGCACATCTCCTCAAGCCTGCCCCCTGACACACAGAAGTTCCTTCGC
TTTGCAGAGACTCACCGCACTGTGTTAAACCAGATCCTACGGCAGTCCACGACCCACCTTGCTGATGGGCCTTTT
GCTGTCTGGTAGACTACATTTCGTGTCCTCGACTTTGATGTCAAGCGCAAATATTTCCGCCAAGAGCTGGAGCGT
TTAGATGAGGGGCTCCGGAAAGAAGACATGGCTGTGCATGTCCTTCGTGACCATGTGTTTGAAGACTCCTATCGT
GAGCTGCATCGCAAATCCCCGAAGAAATGAAGAATCGATTGTATATAGTATTTGAAGGAGAAGAAGGGCAGGAT
GCTGGCGGGCTCCTGCGGGAGTGGTATATGATCATCTCTCGAGAGATGTTTAAACCCTATGTATGCCTTGTTCCGT
ACCTCACCTGGTGATCGAGTCACCTACACCATCAATCCATCTTCCACTGCAACCCCAACCACCTCAGCTACTTC
AAGTTTGTGCGACGCATTGTGGCCAAAGCTGTATATGACAACCGTCTTCTGGAGTGCTACTTTACTCGATCCTTT
TACAAACACATCTTGGGCAAGTCAGTCAGATATACAGATATGGAGAGTGAAGATTACCACTTCTACCAAGGTCTG
GTTTATCTGCTGGAAAATGATGTCTCCACACTAGGCTATGACCTCACCTTCAGCACTGAGGTCCAAGAGTTTGGA
GTTTGTGAAGTTCGTGACCTCAAACCAATGGGGCCAACATCTTGGAACAGAGGAGAAATAAGAAGGAGTATGTA
CACCTGGTATGCCAGATGAGAATGACAGGAGCCATCCGCAAGCAGTTGGCGGCTTCTTAGAAGGCTTCTATGAG
ATCATTCCAAAGCGCCTCATTTCATCTTCACTGAGCAGGAGTTAGAGCTGCTTATATCAGGACTGCCCACCAT
GACATCGATGATCTGAAATCCAACACTGAATACCACAAGTACCAGTCCAACCTCTATTAGATCCAGTGGTTCTGG
AGAGCATTGCGTTCTTTTCGATCAAGCTGACCGTGCCAAGTTCCCTCCAGTTTGTACGGGTACTTCCAAGGTACCC
CTGCAAGGCTTTGCTGCCCTCGAAGGCATGAATGGCATTGAGAAGTTTCAGATCCATCGAGATGACAGGTCCACA
GATCGCCTGCCTTCAGCTCACACATGTTTTAATCAGCTGGATCTGCCTGCCTATGAGAGCTTTGAGAAGCTCCGC
CACATGCTACTGTTGGCTATCCAGGAGTGCTCTGAAGGCTTTGGGCTGGCCTAATAAGGCCCTGCCCAACTCCGT
GGGGTTTTTTTTTACCATTGTTGGACCTGGGGAGGGGGGAGTTAAAAAAGAACCAGAAAGAAATTGTCAAAAACC
AATAAATGAAATCCACCAACTCACCGTGTGTGTCCAGCTGCCCCATCTTCCCAGCGCATACCTGTTCCTCTTC
TCATTCTCTCCCGCCGCTGTTTCCTCACCTTCTCTCCCCTTTCCATGCCGTCCATGATCCCCACCCCATGTGT
TTTAAAAGGCAGTAGCCTTTGCAGGGACCTGTCTGTCCCAACTGTTGAACAGTGTGCTCCTCAGATTCTGTGT
TCAGAAGGATTTGCTGCATTGAGACTTGAAACCTTTGGATAGGGGAAAAAATTATATATATATATATTTTTTGT
TCTGTTTGCAATTTCTAATTTGTGCTTGAATGTGTGATGTGCACAGCTAATGATTCAATGCGAGACAAGATTG
GCGTCTGTGTTGTGGAGGTTTCAAATAAAGAGCACTCTTCATAACTCAAAAAAAAAA

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FIGURE 705

MIISREMFNPMYALFRITSPGDRVTYITINPSSHCPNHLSYFKFVGRIVAKAVYDNRLLCYFTRSFYKHILGKSV
RYTDMESDYHIFYQGLVYLLENDVSTLGVDLTFSTEVQEFVCEVRDLKPNGANILVTEENKKEYVHLVCQMRMT
GAIRKQLAAFLEGFYEIIPKRLISIFTEQELELLISGLPTIDIDDLKSNTYHKKYQSNISIQWFWRALRSFDQA
DRAKFLQFVTGTSKVPLQGFAALEGMNGIQKFQIHRDDRSTDRLP SAHTCFNQLDLPAYESFEKLRHMLLLAIQE
CSEGFGLA

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FIGURE 706A

TCTAGATGGGGGTCTTGGGCCCCAGGGTGTGCAGCCACTGACTTGGGGACTGCTGGTGGGGTAGGGATGAGGGAG
GGAGGGGCATTGTGATGTACAGGGCTGCTCTGTGAGATCAAGGGTCTCTTAAGGGTGGGAGCTGGGGCAGGGACT
ACGAGAGCAGCCAGATGGGCTGAAAGTGGAATCAAGGGGTTTCTGGCACCTACCTACCTGCTTCCCGCTGGGGG
GTGGGGAGTTGGCCAGAGTCTTAAGATTGGGGCAGGGTGGAGAGGTGGGCTCTTCTGCTTCCCACTCATCTTA
TAGCTTTCTTTCCCCAGATCCGAATTCGAGATCCAAACCAAGGAGGAAAGGATATCACAGAGGAGATCATGTCTG
GGGCCCCGACTGCCTCCACACCCACCCCTCCCGAGACGGGAGGCAGTCTGGAGCCTCAAGCTAATGGGGAGACGC
CCCAGGTGCTGTCTATTGTCCGGCCAGATGACCGGTACAGGGAGCAATCATTGCTGACCGGCCAGGGCTGCCTG
GCCAGAGCATAGCCCTTCAGAAATCCAGCCCTTCGTGCGCTTCTCCGACCCCATCACCATCCCCAGTCTTGGAAC
CGGGGTCTGAGCCTAATCTCGCAGTCTCTCTATTCTGGGGACACTATGACAACTATACAAATGTCTGTAGAAG
AATCAACCCCCATCTCCCGTGAAACTGGGGAGCCATATCGCCTCTCTCCAGAACCCACTCCTCTCGCCGAACCCA
TACTGGAAAGTAGAAGTGACACTTAGCAAACCGGTTCCAGAACTGTAGTCTTCTTCCAGTCTCTCCAGGCTCCCA
CCCCTTTGGCATCTCACAGTGGAAATTCATGAGCCTAATGGCATGGTCCCATCTGAAGATCTGGAACAGAGG
TGGAGTCAAGCCCAGAGCTTGCTCCTCCCCAGCTTGCCCTCCGAATCCCTGTGCCCATTGCTCCAAC TGCCC
AACCTGAGAACTGCTCAACGGAGCCCCCTCGCCACCAGCTGTGGACTTAAGCCCAGTCAGTGAGCCAGAGGAGC
AGGCCAAGGAGGTGACAGCATCAGTGGCGCCCCCACCATCCCCCTCTGCTACTCCAGCTACGGCTCCTTCAGCTA
CTTCCCCAGCTCAGGAGGAGGAAATGGAAGAAGAAGAAGATGAGGAAGAAGGAGAAGTAGGGGAAGCAGGGGAAG
GTGAGAGTGAGAAGAGAGGAGAGGAACTGTCCCCCAGAGAGTACCCCTATTCCAGCCAATTGTCTCAGAATT
TGGAGGCAGCAGCAGCCACTCAAGTGGCAGTATCTGTGCCAAAGAGGAGACGGAATAAAGGAGCTAAATAAGA
AGGAGGCTGTTGGAGACCTTCTGGATGCCTTCAAGGAGGCGAACCCGGCAGTACCAGAGGTGGAAAATCAGCCTC
CTGCAGGCAGCAATCCAGGCCAGAGTCTGAGGGCAGTGGTGTGCCCCACGTCTGAGGAAGCAGATGAGACCT
GGGACTCAAAGGAAGACAAAATTCAATGCTGAGAATCCAGCCCGGGGAACAGAAGTATGAATATAAGTCAG
ATCAGTGGAAGCCTCCAAACCTAGAGGAGAAAAACGTTACGACCGTGAGTCTCTGCTTGGTTTCAGTTTCATCT
TTTGCCAGATGCAGAAGCCAGAGGGATTGCCACATATCAGTGACGTGGTGTGCTGGACAAGGCCAATAAAACACCAC
TGCGGCCACTGGATCCCACTAGACTACAAGGCATAAATTGTGGCCAGACTTCACTCCATCCTTTGCCAACCTTG
GCCGACAACCCCTAGCACCCGTGGGCCCCCAAGGGGTGGGCCAGGTGGGGAGCTCGCCCGTGGCGCGCAGGCTG
GCCTGGGACCCCGCGCTCTCAGCAGGGACCCCGAAAAGAACCCAGCAAGATCATTGCCACAGTGTTAATGACCG
AAGATATAAACTGAACAAAGCAGAGAAAGCCTGGAAACCCAGCAGCAAGCGGACAGCGGCTGATAAGGATCGAG
GGGAAGAAGATGCTGATGGCAGCAAAACCCAGGACCTATTCCGCAGGTGGCGCTCCATCCTGAATAAACTGACAC
CCCAGATGTTCCAGCAGCTGATGAAGCAAGTGACGCAGCTGGCCATCGACACCGAGGACGCCTCAAAGGGGTGAT
TGACCTCATTTTTGAGAAGGCCATTTAGAGCCCACTTCTCTGTGGCCTATCCAACATGTGCCGCTGCCTCATG
GCGCTGAAAGTGCCCACTACGGAAGCCAACAGTGACTGTGAACTTCCGAAAGCTGTTGTTGAATCGATGTGAGA
AGGAGTTTGAGAAAGACAAAGATGATGATGAGTTTTTGAGAAAGCAAAAAGAGATGGATGAAGCTGCTACGG
CAGAGGAACGAGAAGCGCTGAAGGAGGAGCTGGAAGAGGCTCGGGACATAGCCCGCGCTGCTCTTAGGGAATA
TCAAGTTTATTGGAGAGTTGTTCAAACCTGAAGATGTTAACAGAGGCAATAATGCATGACTGTGTGGTCAAACCTGC
TTAAGAACCATGATGAAGAGTCCCTTGAGTGCCTTTGTCTGCTGCTCACCACCATTTGGCAAAGACCTGGACTTTG
AAAAAGCCAAGCCCCGAATGGATCAGTATTTCAACCAGATGGAAAAAATCATTAAAGAAAAGAAGACGTCATCCC
GCATCCGCTTTATGCTGCAGGACGTGCTGGATCTGCGAGGGAGCAATTGGGTGCCACGCCGAGGGGATCAGGGTC
CAAGACCATTGACCAGATCCATAAGGAGGCTGAGATGGAAGACATCGAGAGCACATCAAAGTGCAGCAGCTCATG
CAAGGGCAGTGACAAGCGTGGGGCGGTCTCCAGGCCCTCCCATCAGCCGTGGACTTCCCTTTGGATGATGG
TGGCTGACACAGTTCCTATCAGCAAGGTAGCCGCCCATTTGACACCTCAGACTCACCAAGATCACCAAGCCTG
GCTCCATCGATTCTAACAACCAGCTCTTTGCACCTGGAGGGCGACTGAGCTGGGGCAAGGGCAGCAGCGGAGGGT
CAGGAGCCCAGCCCTCAGACGCAGCATCAGAAGTGCTCGCCAGCTACTAGTACTTTGATTGCTTCTCAGCCC
TTCAACAAGCGGTACCCACAGAAAGCACAGATAATAGACGTGTGGTGAGAGGAGTAGCTTGAGCCGAGAACGAG
GCGAGAAAGCTGGAGACCGAGGAGACCGCCTAGAGCGAGTGAACGGGGAGGGGACCGTGGGGACCGGCTTGATCG
TGTCGCGGACACCTGCTACCAAGCGGACGTTACGCAAGGAAGTGGAGGAGCGGAGTAGAGAACGGCCCTCCAGC
CTGAGGGGCTGCGCAAGGCAGCTAGCCTACGGAGGATCGGGACCGTGGGCGGGATGCCGTGAAGCGAGAAGCTG
CCCTACCCCCAGTGAGCCCCCTGAAGGCGGCTCTCTCTGAGGAGGAGTTAGAGAAGAAATCCAAGGCTATCATTG
AGGAATATCTCCATCTCAATGACATGAAAGAGGCAGTCCAGTGCCTGCAGGAGCTGGCCTCACCTCCTTGCTCT

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FIGURE 706B

TCATCTTTGTACGGCATGGTGTGCGAGTCTACGCTGGAGCGCAGTGCCATTGCTCGTGAGCATATGGGGCAGCTGC
TGCACCAGCTGCTCTGTGCTGGGCATCTGTCTACTGCTCAGTACTACCAAGGGTTGTATGAAATCTTGGAATTGG
CTGAGGACATGGAATTTGACATCCCCCAGTGTGGCTCTACCTAGCGGAAGTGGTAACACCCATTCTGCAGGAAG
GTGGGGTGCCCATGGGGGAGCTGTTTACGGGAGATTACAAAGCCTCTGAGACCGTTGGGCAAAGCTGCTTCCCTGT
TGCTGGAGATCCTGGGCCTCCTGTGCAAAAGCATGGGTCTTAAAAAGGTGGGGACGCTGTGGCGAGAAGCCGGGC
TTAGCTGGAAGGAATTTCTACCTGAAGGCCAGGACATTGGTGCATTTCGTCGCTGAACAGAAGGTGGAGTATACCC
TGGGAGAGGAGTCGGAAGCCCCTGGCCAGAGGGCACTCCCTCCGAGGAGCTGAACAGGCAGCTGGAGAAGCTGC
TGAAGGAGGGCAGCAGTAACCAGCGGGTGTTCGACTGGATAGAGGCCAACCTGAGTGAGCAGATAGTATCCAACA
CGTTAGTTCGAGCCCTCATGACGGCTGTCTGCTATTCTGCAATTATTTTGTAGACTCCCTCCGAGTGGACGTTG
CAGTGCTGAAAGGCGACATAGTGCTGCAGAAATACCTGTGTGACGAAGCAGAAGGAGCTACAGGCGCTCTACGCC
TCCAGGCCCTTGTAGTGACCTTAGAACAGCCTCCCAACCTGCTGCGGATGTTCTTTGACGCACTGTATGACGAGG
ACGTGGTGAAGGAGGATGCCTTCTACAGTTGGGAGAGTAGCAAGGACCCCGCTGAGCAGCAGGGCAAGGGTGTGG
CCCTTAAATCTGTACAGCCTTCTTCAAGTGGCTCCGTGAAGTCAGAGGAGGAGTCTGACCACAAGTGAAGGCTG
GTGGGGCCGGGGACCTGGAGCCCCATGGACACACAGATGGCTCCGGCTAGCCGCTGGACTGCAGGGGGCGGCA
GCAGCGCGGGTGGCAGTGGGTGCCTGTAGTGTGATGTGTCTGAACTAATAAAGTGGCTGAAGAGGCAGGATGGCT
TGGGGCTGCCTGGGCCCCCTCCAGGATGCCGCCAGGTGTCCCTCTCCTCCCTGGGGCACAGAGATATATTATA
TATAAAGTCTTGAAATTTTGAAATTTGGTGTGTCTTGGGGTGGGGAGGGGCACCAACGCCTGCCCCTGGGGTCC
TTTTTTTTATTTCTGAAATCACTCTCGGACTGCCGTCTCGCTGCTGGGCATATGCCCCAGCCCCTGTACCAC
CCCTGCTGTTGCCTGGGCAGGGGAAGGGGGGCACGGTGCCTGTAATTATTAAACATGAATCAATT

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FIGURE 707

MSGARTASTPTPPQTGGSLEPQANGETPQVAVIVRPDDRSQGAIADRPGLPGPEHSPSESQPSSPSPTPSPSPV
LEPGSEPNLAVLSIPGDTMTTIQMSVEESTPISRETGEPYRLSPEPTPLAEPILEVEVTLSPVPSESEFSSSPLQ
APTPLASHTVEIHEPNGMVPSEDLPEVESSPELAPPPACPSESPVPIAPTAQPEELLNGAPSPPAVDLSPVSEP
EEQAKEVTASVAPPTIPSATPATAPSATSPAQEEEMEEEEDEEEGEVGEAGEGESEKRGEE LLPPESTPIPANLS
QNLEAAAAATQVAVSVPKRRRKIKELNKKEAVGDLLDAFKEANPAVPEVENQPPAGSNPGPESESGVPPRPEEAD
ETWDSKEDIHNAENIQPGEQKYEYKSDQWKPPNLEEKRYDREFLLGFQFIFCQMOKPEGLPHISDVVLDKANK
TPLRPLDPTLQGINCGPDFTPSFANLGRITTLSTRGPPRGPGGELARGAQAGLGPRRSQQGPRKEPRKIIATVL
MTEDIKLNKAEKAWKPSSKRTAADKDRGEEDADGSKTQDLFRRWRSILNKLTPQMFOQLMKQVTQLAIDTEDASK
GSLTSFLRRPFQSPISLWPIQHVPPLPHGAESAHYGKPTVTNFRKLLNRCQKEFEKDKDDDEVFEKKQKEMDEA
ATAEERERLKEELEEARDIARRCSLGNIKFIGELFKLMLTEAIMHDCVVKLLKNHDEESLECLCRLLTTIGKDL
DFEKAKPRMDQYFNQMEKIIKEKKTSSRIRFMLQDVLDLRGSNWVPRRGDQGPRPLTRSIRRLRWKTSRAHQSA
AHARAVTSVGAVALQALPSAVDFPLWMMVADTVPI SKGSRPIDTSRLTKITKPGSIDSNQLFAPGGRLSWGKSS
GGSGAQPSDAASEAARPATSTLIRFSALQQAVPTTESTDNRRVVQRSSLSRERGEKAGDRGDRLERVNGEGTVGTG
LIVSRTPATKRTFSKEVEERSRERPSQPEGLRKAASLTEDRDRGRDAVKREAALPPVSPLKAALSEEELEKKS
IIIEYLHLNDMKEAVQCVQELASPSLLFIFVRHGVESTLERSAIAREHMGQLLHQLLCAGHLSTAQYYQGLYEIL
ELAEDMEIDIPHVWLYLAELVTPILQEGGVPMGELFREITKPLRPLGKAASLLEILGLLCKSMGPKKVGLWRE
AGLSWKEFLPEGQDIGAFVAEQKVEYTLGESEAPGQRALPSEELNRQLEKLLKEGSSNQRFVDWIEANLSEQIV
SNTLVRALMTAVCYSAIFETPLRVDVAVLKGDIVLQKYLCEAEGATGALRLQALVVTLEQPPNLLRMFFDALY
DEDVVKEDAFYSWESSKDPAEQQGKGVALKSVTAFFKWLREVRGGV

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FIGURE 708

AAAAAGAAATCAAGAATGCAATTTTATTATTACAATAGTCACGCCGGAATACCTAGAAATAAATTTAACTGAGGAT
GTAAAAGACCTCTACAAGGAGAGTTCAATGCGTAGCGGGAGCGGAGAGCTGACCCAGAGAGCCCTGGGCAGCCC
CACCTCCGCCCGCCGCTAGTTACCATCACACCCGAGAGCCCGAGCTGCCGCAGCCGGCCCCAGTCACCATC
ACCGCAACCATGAGCAGCGAGGCCGAGACCCAGCAGCCGCCCGCCCCCGCCCCCGCCCCCGCCCTCAGCGCC
GCCGACACCAAGCCCGGCACTACCGGAGCGGCGCAGGGAGCGGTGGCCCGGGCGGCTCACATCGGCGGCGCTGGC
GCGGGCGACAAGAAGGTCATCGCAACGAAGTTTTGGGAACAGTAAATGGTTCAATGTAAGGAACGGATATGGT
TTCATCAACAGGAATGACACCAAGGAAGATGTATTTGTACACCAGACTGCCATAAAGAAGAATAACCCAGGAAG
TACCTTCGCAGTGTAGGAGATGGAGAGACTGTGGAGTTTGATGTTGTTGAAGGAGAAAAGGGTGCGGAGGCAGCA
AATGTTACAGGTCTTGGTGGTGTTCAGTTCAAGGCAGTAAATATGCAGCAGACCGTAACCATTATAGACGCTAT
CCACGTCGTAGGGGTCTTCCACGCAATTACCAGCAAAATTACCAGAATAGTGAGAGTGGGGAAAAGAACGAGGGA
TCGGAGAGTGCTCCCGAAGCCAGGCCAACACGCCGCCCTACGCAGGCGAAGGTTCCACCTTACTACATGCG
GAGACCTATGGGCGTCGACCACAGTATTCACCCCTCTGTGCAGGGAGAAGTGATGGAGGGTGCTGACAACCAG
GGTGCAGGAGAACAAAGGTAGACCAGTGAGGCAGATATGTATCGGGGATATAGACCAGATTCCGCAGGGGCCCTC
CTCGCCAAAAGACAGCCTAGAGAGGACGCAATGAAGAAGATAAAGAAAATCAAGGAGATGAGACCCAAGGTCAG
CAGCCACCTCAAGCTCGGTACCGCCGCACTTCAATTACCGACGCAGACGCCAGAAAACCCCTAAACCACAAGAT
GGCAAAGAGACAAAAGCAGCCGATCCACCAGCTGAGAATTTCGTCCGCTCCCGAGGCTGAGCAGGGCGGGGCTGAG
TAAATGCCGGCTTACCATCTCTACCATCATCCGGTTTAGTCATCCAACAAGAAGAAATATGAAATTCAGCAATA
AGAAATGAACAAAAGATTGGAGCTGAAGACCTAAAGTGCTTGTCTTTTGGCCGTTGACCAGATAAATAGAACTAT
CTGCATTATCTATGCAGCATGGGGTTTTTATTATGTTTTACCTAAAGACGTCTCTTTTGGTAATAACAAACCGT
GTTTTTTAAAAAGCCTGGTTTTTCTCAATACGCCTTTAAAGGAATTCC

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FIGURE 709

MSSEAETQQPPAAPPAAPALSAADTKPGTTGAAQGAVARAAHIGGAGAGDKKVIATKVLGTVKWFNVRNGYGFIN
RNDTKEDVVFVHQTAIKKNNPRKYLRSVGDGETVEFDVVEGEKGAEAAANVTGPGGVPVQGSKYAADRNHYRRYPRR
RGPPRNYQQNYQNSESGEKNEGSESAPEARPNNAGPTQAKVPTLLHAETYGRRPQYSNPPVQGEVMEGADNQGAG
EQGRPVRQICIGDIDHDSAGALLAKRQPPREDGNEEDKENQGDETQGQQPPQARYRRNFNYRRRRPENPKPDGKE
TKAADPPAENSSAPEAEQGGAE

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FIGURE 710

GGTAAGAGAAGACTGGAAGCATGTCGGAGTTTTGGTTAATTTCTGCCCTGGCGATAAGGAAAATTTGCAAGCTC
TGGAGAGGATGAATACTGTAACCTCCAAGTCCAACCTGTCTTATAATACCAAATTCGCTATTCTGACTTCAAGG
TGGGGACCTTGGATTCCCTGGTTGGCTCTCTGATGAGTTGGGGAACTCGACACCTTTGCTGAAAGCCTCATAA
GGAGAATGGCTCAGAGCGTGGTGGAGTCATGGAGGACTCAAAGGGGAAGGTCCAGGAGCACCTCCTGGCAAACG
GAGTTGACTTAACATCCTTTGTGACCCACTTTGAATGGGACATGGCCAAATATCCTGTCAAGCAGCCGCTCGTGA
GTGTGGTGGACACAATAGCCAAGCAACTGGCGCAGATCGAGATGGACCTGAAGTCCCGAACGGCCGCCTACGACA
CTCTGAAGACAAACCTGGAGAACCTGGAAAAGAAATCCATGGGGAACTCTTCACCCGGACACTGAGTGATATTG
TGAGCAAAGAGGACTTCGTGCTGGATTCTGAATATCTCGTCACACTTCTGGTCATCGTCCCCAAACAACTACT
CACAATGGCAAAAAACCTACGAATCTCTCTCAGACATGGTGGTCCCTCGATCAACCAAACCTCATTACTGAGGACA
AGGAAGGGGGCCTTTTCACTGTGACTCTGTTTCGAAAAGTGATTGAAGATTTCAAACCAAGGCCAAAGAAAACA
AGTTCACTGTTCTGTGAATTTTACTATGATGAGAAGGAAATTGAAAGGGAAAGGGAGGAGATGGCCAGATTGCTGT
CTCATAAGACAACAGTATGGCCCCCTGCTGCGCTGGCTCAAGGTGAACCTCAGTGAAGCCTTCATTGCTGGA
TCCACATCAAGGCCCTGAGAGTGTGTTGGAGTCCGTGCTCAGGTATGGACTACCAGTGAACCTCCAGGCAGTGC
TCCTGCAGCCGCATAAGAAGTCATCCACCAAGCGTTTAAAGAGAGGTTCTAAACTCTGTCTTCCGACATCTGGATG
AAGTAGCCGCTACAAGTATACTGGATGCATCTGTGGAGATCCCGGGACTGCAACTCAATAACCAAGACTATTTTC
CTTATGTCTACTTCCATATTGACCTTAGTCTTCTTGACTAGCAAGGCCAGCTGGCACCTCTGTCTCATGTTCTGTG
CAGATTATTACAGACACCTCTTTCTTTAGCCAGAGAATGGTTCAAATGTCTTACAGAACTAAGATCTTTTTTCAG
AGAAATTGCTCACAAAAGTTAGTGACAGTTGTATTTATTTTTTAAAGTTACAATAAAATGCTCTCAAGTCCTTTG
AATGTTCCAACAAATTCAAACCTTCATTTTCTGAATGTTTACATAAATGCGAACTACCTGTTGCGATTGGTAAC
CTGCTGCTGTATTTTCTGTCTTAACGGCTATTTTGGAGTTCATTAACAACATAGAAAGCCTGAACTGTATAACC
AGCTAGATTCCCTTAATAATTAGTCACTAGAGACAGCCCAAAGACAAATATTGGGCAGGAAATCAGTTCTCACTGA
GCCCGGTTTCCATGTAAAATCTCTGTTGTGGTGGGCATAGGTGGCACCATCTAAAGAAAAGAGGTCTTGTTTTT
GTTTAAAAAGTTTGTGGGGAGGAAAGACATCTGTGTATCACTTCAAATATTGATTTACTGCTAAACATCACTC
TGAATTTATGATGTGGATACTAAGTTTACATATTTATCGGCATTGTCCAAATATTTTATTCTTAAATGGAAAA
GCCATTAATATTCAAATGAAGGGATCACATTAACAAAAACCCATACATAAGAAACAGCCTCCAAGAACATTCAAG
CAGCAGTCAGAGAGAAAAATGTTTCGACAGCCAAGTTTTCTTCAAATATTATGTGACAGAATACGACTCAATTC
ACCGGCTACAACAATTATAGAAATTTTCAATGTTTTCTTGAGATGCAAAAGTTCAGTGTGAGTGTGTTTCAA
TGACCAATCAAGTACTACTTCTTGGTTAAAAGGCCACTGGTAGAGTCATCTGAGTGTAGAGAATGTCCCTTCACT
GCTGGAAAAATCCACTGGCTCCCAAGAAAAGAAAATGGTCTGAAGCCTCTGTTGTGGCTCTCACAACCTCATCTT
CCCTAAGTCATCAAGCTCCACATCACTGAGGTCAATGTATCTCCACGGGAAGCTGGGAGACGACAGAAAGCCA
CTGTTAGATCTGCAGAAGGGGACACCCGGAAGGTCAACATCTCATTTTATGGAAGAGCGACTCTCTGGAGCTAC
TCCTGCTACAATCCAGGTTCTCCTCAGTCTGACTCCTACCCTGACCTTCGTACCTATGATTATACGGATGGAAAA
GCTCAGAACTCAGGTGAAACATTCAACATCACATCACTCACCATTTTAACTGGAAGCCACTTGAACGTGTCC
TTTTGAGGAGGGTGGGACACAACAGTACAGAAATAAGTGCTAATTTCAAAGCTATCATTTTCTATTTTTCTAAGA
TAAAGTAAATGAATTCAGGTTAAATGTTCACTTAAAGGTAATAATCAGGAAAGCAACCTTACTACTGAAATGTA
TCTTGGCTGTCAAGAGTATCAAATGCCATGCAGCACTTAACTTGTGATAAGGAAGATGAAGGGTCTTCAGAGAA
GAACCTCTTAAAGGCCACGGGTGCACCAGGGCTGAGGTCTGATGGGAAGGACTTGAAGTCCAGGTGCAGAGATG
CACAGGCTCAAGAGAGTAAACCAGGACTGCTGCCCGCACAGCTTCCCTCCCGGGCACTCACCTCGCCATCCCTGC
CGTCCAAGGCTCTCTCTCAACGATGGTAGGGAAAGCCCCGCCTCTACAGGTGCCGTGGAGCCACGCCCCAAAG
AGAGCTCCCTTAGGGAAAAATGACCAAAACACACACACATTACAATGGACTGCTGGTGCAGAAGAATAAACA
ACTTTAAAAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 711

MSEFWLISAPGDKENLQALERMNTVTSKSNLSYNTKFAIPDFKVGILDSLVLGSLDELGKLDTFAESLIRMAQSV
VEVMEDSKGKVQEHL LANGVDLTSFVTHFEWDMAKYPVKQPLVSVDITIAKQLAQIEMDLKSRTAAYDTLKTNLE
NLEKKSMGNLFTRTLSDIVSKEDFVLDSEYLVTLVIVPKPNYSQWQKTYESLSDMVVPRSTKLITEDKEGGLFT
VTLFRKVIEDFKTKAKENKFTVREFYYDEKEIEREREEMARLLSDKKQYGPLLRLKVNFSFAFIWIHIKALR
VFVESVRLRYGLPVNFAQAVLLQPHKKSSTKRLREVLNSVFRHLDEVAATSILDASVEIPGLQLNNQDYFPYVYFHI
DLSLLD

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FIGURE 712

CTGCCACTGCCACCTCGCGGATCAGGAGCCAGCGTTGTTTCGCCCGACGCTCGCTGCCGGTGGGAGGAAGCGAGA
GGGAAGCCGCTTGGGCTCTTGTGCGCGCTGCTCGCCACCGCTGGAAGAGCCGAGCCCCGGCCAGTCGGTTCGCT
TGCCACCGCTCGTAGCCGTTACCCGCGGGCCGCCAGCCGCGGGGAGAGGCGCGGCCATGGCTTCTGGAG
CCGATTCAAAAGGTGATGACCTATCAACAGCCATTCTCAAACAGAAGAACCGTCCCAATCGGTTAATTGTTGATG
AAGCCATCAATGAGGACAACAGTGTGGTGTCTTGTCCCAGCCCAAGATGGATGAATTGCAGTTGTTCCGAGGTG
ACACAGTGTGCTGAAAGGAAAGAAGAGACGAGAAGCTGTTTGCATCGTCCTTCTGATGATACTTGTCTGATG
AGAAGATTCGGATGAATAGAGTTGTTTCGGAATAACCTTCGTGTACGCCCTAGGGGATGTCATCAGCATCCAGCCAT
GCCCTGATGTGAAGTACGGCAAACGTATCCATGTGCTGCCCATTTGATGACACAGTGGAAAGCATTACTGGTAATC
TCTTCGAGGTATACCTTAAGCCGTACTTCTCGAAGCGTATCGACCCATCCGGAAGGAGACATTTTTCTTGTC
GTGGTGGGATGCGTGTGTGGAGTTCAAAGTGGTGGAAAACAGATCCTAGCCCTTATTGCATTGTTGCTCCAGACA
CAGTGATCCACTGCGAAGGGGAGCCTATCAAACGAGAGGATGAGGAAGAGTCTTGAATGAAGTAGGGTATGATG
ACATTGGTGGCTGCGAAGCAGCTAGCTCAGATCAAAGAGATGGTGGAACTGCCCTGAGACATCCTGCCCTCT
TTAAGGCAATTGGTGTGAAGCCTCCTAGAGGAATCCTGCTTTACGGACCTCCTGGAACAGGAAAGACCTGATTG
CTCGAGCTGTAGCAAATGAGACTGGAGCCTTCTTCTTCTTGATCAATGGTCTGAGATCATGAGCAAATTGGCTG
GTGAGTCTGAGAGCAACCTTCGTAAAGCCTTTGAGGAGGCTGAGAAGAATGCTCCTGCCATCATCTTCATTGATG
AGCTAGATGCCATCGCTCCCAAAGAGAGAAAACCTCATGGCGAGGTGGAGCGGCGCATTGTATCACAGTTGTTGA
CCCTCATGGATGGCCTAAAGCAGAGGGCACATGTGATTGTTATGGCAGCAACCAACAGACCCAACAGCATTGACC
CAGCTCTACGGCGATTGGTGTGCTTTGACAGGGAGGTAGATATTGGAATTCCTGATGCTACAGGACGCTTAGAGA
TTCTTCAGATCCATACCAAGAACATGAAGCTGGCAGATGATGTGGACCTGGAACAGGTAGCCAATGAGACTCAG
GGCATGTGGGTGCTGACTTAGCAGCCCTGTGCTCAGAGGCTGCTCTGCAAGCCATCCGCAAGAAGATGGATCTCA
TTGACCTAGAGGATGAGACCATTGATGCCGAGGTCTGAAGTCTCTAGCAGTTACTATGGATGACTTCCGGTGGG
CCTTGAGCCAGAGTAACCCATCAGCACTGCGGGAAACCGTGGTAGAGGTGCCACAGGTAACCTGGGAAGACATCG
GGGGCCTAGAGGATGTCAAACGTGAGCTACAGGAGCTGGTCCAGTATCCTGTGGAGCACCAGACAAATTCCTGA
AGTTTGGCATGACACCTTCCAAGGGAGTTCTGTTCTATGGACCTCCTGGCTGTGGGAAAACCTTTGTTGGCCAAAG
CCATTGCTAATGAATGCCAGGCCAACTTCTCCTCATCAAGGGTCTGAGCTGCTCACCATGTGGTTTGGGGAGT
CTGAGGCCAATGTGAGAGAAATCTTTGACAAGGCCCGCCAAAGCTGCCCCCTGTGTGCTATTCTTTGATGAGCTGG
ATTCGATTGCCAAGGCTCGTGGAGGTAACTTGGAGATGGTGGTGGGGCTGCTGACCGAGTCATCAACCAGATCC
TGACAGAAATGGATGGCATGTCCACAAAAAAATGTGTTTCATCATTGGCGCTACCAACCGGCCTGACATCATTG
ATCCTGCCATCCTCAGACCTGGCCGTCTTGATCAGCTCATCTACATCCCACCTTCTGATGAGAAGTCCCCTGTTG
CCATCCTCAAGGCTAACCTGCGCAAGTCCCAAGTTGCCAAGGATGTGGACTTGGAGTTCTTGCTAAAATGACTA
ATGGCTTCTCTGGAGCTGACCTGACAGAGATTGCCAGCGTCTTGCAAGCTGGCCATCCGTGAATCCATCGAGA
GTGAGATTAGGCGAGAACGAGAGAGGCAGACAAACCCATCAGCCATGGAGGTAGAAGAGGATGATCCAGTGCCTG
AGATCCGTCGAGATCACTTTGAAGAAGCCATGCGCTTTGCGCGCCGTTCTGTGAGTGACATGACATTCCGAAGT
ATGAGATGTTTGGCCAGACCTTCAGCAGAGTCGGGGCTTTGGCAGCTTCAGATTCCCTTCAGGGAACAGGGTG
GAGCTGGCCCCAGTCAGGGCAGTGGAGGCGGCACAGGTGGCAGTGTATACAGAGAAGACAATGATGATGACCTGT
ATGGCTAAGTGGTGGTGGCCAGCGTGCAGTGAGCTGGCCTGCCTGGACCTTGTTCCTGGGGGTGGGGCGCTTGC
CCAGGAGAGGGACCAGGGGTGCGCCACAGCCTGCTCCATTCTCCAGTCTGAACAGTTCAGCTACAGTCTGACTC
TGGACAGGGGTTTCTGTTGCAAAAATACAAAACAAAGCGATAAAATAAAAGCGATTTTCATTGGTAGGCGGA
GAGTGAATTACCAACAGGGAATTGGGCCTTGGGCCTATGCCATTCTGTTGTAGTTTGGGGCAGTGCAGGGGACC
TGTGTGGGGTGTGAACCAAGGCACTACTGCCACCTGCCACAGTAAAGCATCTGCACTTGACTCAATGCTGCCCGA
GCCCTCCCTTCCCCCTATCCAACCTGGGTAGGTGGGTAGGGGCCACAGTTGCTGGATGTTTATATAGAGAGTAGG
TTGATTTATTTTACATGCTTTTGAGTTAATGTTGGAAAACATAACAGCAGTTTCTAAACCAAAAAATGACAT
GTTGTAAGGACAATAAACGTTGGGTCAAAATGGAAAAA

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FIGURE 713

MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVVSLSQPKMDELQLFRGDTVLLKGKKRREAVCIVLSDD
TCSDEKIRMNRVVRNNLRVRLGDVISIQPCPDVKYGKRIHVLPIDDTVEGITGNLFEVYLKPYFLEAYRPIRKG
IFLVRGGMRAVEFKVETDPSYCVAPDTVHCEGEPIKREDEEESLNEVGYYDDIGGCRKQLAQIKEMVELPLR
HPALFKAIGVKPPRGILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESSENLRKAFEEAEKNAPAI
IFIDELDAIAPKREKTHGEVERRIVSQLLTIMDGLKQRAHVIVMAATNRPN SIDPALRRFGREFDREVDIGIPDAT
GRLEILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCSEAAALQAIRKKMDLIDLEDETIDAEVMNSLAVTMD
DFRWALQSQNP SALRETVVEVPQVTWEDIGGLEDVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGP PGCGKT
LLAKAIANECQANFISIKGPELLTMWFGSEANVREIFDKARQAAPCVLFFDELD SI AKARGGNIGDGGGAADRV
INQILTEMDGMSTKKNVFIIGATNRPD IIDPAILRPGRLDQLIYIPLPDEKSRVAILKANLRKSPVAKDV DLEFL
AKMTNGFSGADLTEICQRACKLAIRESIESEIRRERERQTNP SAMEVEEDDPVPEIRRDHFEEAMRFARRSVSDN
DIRKYEMFAQTLQQSRGFGSFRFP SGNQGGAGPSQSGGGTGGSVYTEDNDDDLYG

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FIGURE 714

GGATCGAGGGGACTCTGACCACAGCCTGTGGCTGGGAAGGGAGACAGAGGCGGCGGCGCTCAGGGGAAACGAGG
CTGCAGTGGTGGTAGTAGGAAGATGTCGGGCGAGGACGAGCAACAGGAGCAAACATATCGCTGAGGACCTGGTCGT
GACCAAGTATAAGATGGGGGCGACATCGCCAACAGGGTACTTCGGTCCTTGGTGGAAGCATCTAGCTCAGGTGT
GTCGGTACTCAGCCTGTGTGAGAAAGGTGATGCCATGATTATGGAAGAAACAGGGAAAACTTCAAGAAAGAAAA
GGAAATGAAGAAAGGTATTGCTTTTCCACCAGCATTTCGGTAAATAACTGTGTATGTCACCTTCTCCCTTTGAA
GAGCGACCAGGATTATATTCTCAAGGAAGGTGACTTGGTAAAAATTGACCTTGGGGTCCATGTGGATGGCTTCAT
CGCTAATGTAGCTCACACTTTTGTGGTTGATGTAGCTCAGGGGACCCAAGTAACAGGGAGGAAAGCAGATGTTAT
TAAGGCAGCTCACCTTTGTGCTGAAGCTGCCCTACGCCCTGGTCAAACCTGGAAATCAGAACACACAAGTGACAGA
AGCCTGGAACAAAGTTGCCCACTCATTAACTGCACGCCAATAGAAGGTATGCTGTACACCAGTTGAAGCAGCA
TGTCATCGATGGAGAAAAACCATTATCCAGAATCCACAGACCAGCAGAAGAAGGACCATGAAAAAGCTGAATT
TGAGGTACATGAAGTATATGCTGTGGATGTTCTCGTCAGCTCAGGAGAGGGCAAGGCCAAGGATGCAGGACAGAG
AACCCTATTTACAAACGAGACCCCTCTAAACAGTATGGACTGAAAATGAAAACCTTACAGTGCCTTCTTCAGTGA
GGTGGAAAGGCGTTTTGTATGCCATGCCGTTTACTTTAAGAGCATTGGAAGATGAGAAGAAGGCTCGGATGGGTGT
GGTGGAGTGCGCCAAACATGAACGTGCTGCAACCATTTAATGTTCTCTATGAGAAGGAGGTTGAATTTGTTGCCCA
GTTTAAATTTACAGTTCTGCTCATGCCCAATGGCCCCATGCGGATAACCAGTGGTCCCTTCGAGCCTGACCTCTA
CAAGTCTGAGATGGAGGTCCAGGATGCAGAGCTAAAGGCCCTCCTCCAGAGTTCTGCAAGTCGAAAAACCCAGAA
AAAGAAAAAAGAAGGCTCCAAGACTGCAGAGAATCCACACAGTGGGGAAACATTAGAAGAAAATGAAGCTGG
GGACTGAGGTGCGTCCCCTCTCCCCAGCTTGCTGCTCCTGCCTCATCCCCTTCCCACCAAACCCAGACTCTGTG
AAGTGCAGTTCTTCTCCACCTAGGACCGCCAGCAGAGCGGGGGGATCTCCCTGCCCCACCCAGTTCCCCAACCC
CACTCCCTTCCAACAACAACCAGCTCCAACCTGACTCTGGTCTTGGGAGGTGAGGCTTCCCAACCACGGAAGACTA
CTTTAAACGAAAAAAGAAATTGAATAATAAAATCAGGAGTCAAAATTCATCGTCTTCAAGGCCCTCTTTCTAG
CCTTTTCTACTACTCTCTGCTTGGTCAAGGTTTGTGCCCCACTACAGAACAGGGCTAAATTAGCCACCACCACTG
AAAACCTAGCCGAATTTTTTTATACCACTCTGACGTGAGCATTTTTT

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FIGURE 715

MSGEDEQQEQTIAEDLVVTKYKMGGDIANRVLRSLEASSSGVSVLSLCEKGDAMIMEETGKIFKKEKEMKKGIA
FPTSISVNNCVCHFSPKSDQDYILKEGDLVKIDLGHVHVDGFIANVAHTFVVDVAQGTQVTGRKADVIKAAHLCA
EAALRLVKPGNQNTQVTEAWNKVAHSFNCTPIEGMLSHQLKQHVIDGEKTIIQNPTDQQKKDHEKAEFEVHEVYA
VDVLVSSGEGKAKDAGQRTTIYKRDPSKQYGLKMKTSRAFFSEVERRFDAMPFTLRAFEDKKARMGVVECAKHE
LLQPFNVLYEKEGEFVAQFKFTVLLMPNGPMRITSGPFEPDLYKSEMEVQDAELKALLQSSASRKTQKKKKKKAS
KTAENPTSGETLEENEAGD

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FIGURE 716

GTTCTTGCCTGGTGTGCGGTGGTTAGTTTCTGCGACTTGTGTTGGGACTGCTGATAGGAAGATGCTTTCAGGAAAT
GCTAAAATTGGGCACCCTGCCCCAACTTCAAAGCCACAGCTGTTATGCCAGATGGTCAGTTTAAAGATATCAGC
CTGTCTGACTACAAAGGAAAATATGTTGTGTTCTTCTTTTACCCTCTTGACTTCACCTTGTGTGCCCCACGGAG
ATCATTGCTTTTCACTGATAGGGCAGAAGAATTTAAGAACTCAACTGCCAAGTGATTGGTGCTTCTGTGGATTCT
CACTTCTGTATCTAGCATGGGTCAATACACCTAAGAAACAAGGAGGACTGGGACCCATGAACATTCCTTTGGTA
TCAGACCCGAAGCGCACCATTGCTCAGGATTATGGGGTCTTAAAGGCTGATGAAGGCATCTCGTTCAGGGGCCTT
TTTATCATTGATGATAAGGGTATTCTTCGGCAGATCACTGTAAATGACCTCCCTGTTGGCCGCTCTGTGGATGAG
ACTTTGAGACTAGTTCAGGCCTTCCAGTTCCTGACAAACATGGGGAAGTGTGCCCAGCTGGCTGGAAACCTGGC
AGTGATAACCATCAAGCCTGATGTCCAAAAGAGCAAAGAATATTTCTCCAAGCAGAAGTGAGCGCTGGGCTGTTTT
AGTGCCAGGCTGCGGTGGGCAGCCATGAGAACAAACCTCTTCTGTATTTTTTTTTTCCATTAGTAAACACAAG
ACTTCAGATTCAGCCGAATTGTGGTGTCTTACAAGGCAGGCCTTTCCCTACAGGGGGTGGAGAGACCAGCCTTTCT
TCCTTTGGTAGGAATGGCCTGAGTTGGCGTTGTGGGCAGGCTACTGGTTTGTATGATGTATTAGTAGAGCAACCC
ATTAATCTTTGTAGTTTGTATTAACTTGAAGTGAAG

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FIGURE 717

MSSGNAKIGH PAPNFKATAVMPDGQFKDISLS DYKGKYV VFFFYPLDFTFVCPT EIIAFSDRAEEFKKLNCQVIG
ASVDSHFCHLAWVNTPKKQGGLGPMNIPLVSDPKRTIAQDYGVLKADEGISFRGLFIIDDKGILRQITVNDLPVG
RSVDETLRLVQAFQFTDKHGEVCPAGWKPGSDTIKPDVQKSKEYFSKQK

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FIGURE 718A

CGGGTGGCGGCTCGGGACGGAGGACGCGCTAGTGTCTTCTGTGTGGCAGTTCAGAATGATGGATCAAGCTAGAT
CAGCATTCTCTAACTTGTTTGGTGGAGAACCATTGTATATACCGGTTTCAGCCTGGCTCGGCAAGTAGATGGCG
ATAACAGTCATGTGGAGATGAACTTGCTGTAGATGAAGAAGAAAATGCTGACAATAACACAAAGGCCAATGTCA
CAAAACCAAAAAGGTGTAGTGGAGTATCTGCTATGGGACTATTGCTGTGATCGTCTTTTCTTGATTGGATTTA
TGATTGGCTACTTGGGCTATTGTAAAGGGGTAGAACCAAAAACCTGAGTGTGAGAGACTGGCAGGAACCGAGTCTC
CAGTGAGGGAGGAGCCAGGAGAGGACTTCCCTGCGACGCTCGCTTATATTGGGATGACCTGAAGAGAAAGTTGT
CGGAGAAACTGGACAGCACAGACTTCACCGGCACCATCAAGCTGCTGAATGAAAATTCATATGTCCCTCGTGAGG
CTGGATCTCAAAAAGATGAAAATCTTGCGTTGTATGTGAAAATCAATTCGTGAATTTAACTCAGCAAAGTCT
GGCGTGATCAACATTTTGTAAAGATTCAGGTCAAAGACAGCGCTCAAAACTCGGTGATCATAGTTGATAAGAACG
GTAGACTTGTTTACCTGGTGGAGAATCCTGGGGGTTATGTGGCGTATAGTAAGGCTGCAACAGTTACTGGTAAAC
TGGTCCATGCTAATTTTGGTACTAAAAAGATTTTGGAGATTTATACACTCCTGTGAATGGATCTATAGTGATTG
TCAGAGCAGGGAAAAATCACCTTTGCAGAAAAGGTTGCAAATGCTGAAAGCTTAAATGCAATTTGGTGTGTTGATAT
ACATGGACAGACATAATTTCCCATTTGTTAACGCAGAACTTTTCATTCTTTGGACATGCTCATCTGGGGACAGGTG
ACCTTTACACACCTGGATTCCCTTCCTTCAATCACACTCAGTTTCCACCATCTCGGTATCAGGATTGCCTAATA
TACCTGTCCAGACAATCTCCAGAGCTGCTGCAGAAAAGCTGTTTGGGAATATGGAAGGAGACTGTCCCTCTGACT
GGAAAAACAGACTCTACATGTAGGATGGTAACCTCAGAAAGCAAGAATGTGAAGCTCACTGTGAGCAATGTGCTGA
AAGAGATAAAAAATCTTAAACATCTTTGGAGTTATTAAAGGCTTTGTAGAACCAGATCACTATGTTGTAGTTGGGG
CCCAGAGAGATGCATGGGGCCCTGGAGCTGCAAAATCCGGTGTAGGCACAGCTCTCCTATTGAAACTTGCCCA
TGTTCTCAGATATGGTCTTAAAGATGGGTTTCAGCCCAGCAGAAAGCATTATCTTTGCCAGTTGGAGTGTGGAG
ACTTTGGATCGGTTGGTGCCACTGAATGGCTAGAGGGATACCTTTCTGCTCCCTGCATTTAAAGGCTTTCACTTATA
TTAATCTGGATAAAGCGGTTCTTGGTACCAGCAACTTCAAGGTTTCTGCCAGCCACTGTTGTATACGCTTATTG
AGAAAACAAATGCAAAATGTGAAGCATCCGGTTACTGGGCAATTTCTATATCAGGACAGCAACTGGGCCAGCAAAG
TTGAGAAACTCACTTTAGACAATGCTGCTTTCCCTTTCTTGCATATTCTGGAATCCCAGCAGTTTCTTTCTGTT
TTTGGCAGGACACAGATTATCCTTATTGGGTACCACCATGGACACCTATAAGGAACTGATTGAGAGGATTCCCTG
AGTTGAACAAAGTGGCAGCAGCTGCAGAGGTGCTGGTCAGTTTCGTGATTAACTAATCCCATGATGTTGAAT
TGAACCTGGACTATGAGAGGTACAACAGCCAAGTCTTTTCATTGTGAGGGATCTGAACCAATACAGAGCAGACA
TAAAGGAAATGGGCCTGAGTTTACAGTGGCTGTATTCTGCTCGTGGAGACTTCTCCGTGCTACTTCCAGACTAA
CAACAGATTTCCGGAATGCTGAGAAAACAGACAGATTTGTCATGAAGAACTCAATGATCGTGTGATGAGAGTGG
AGTATCACTTCTCTCTCCCTACGTATCTCCAAAAGAGTCTCCTTTCCGACATGTCTTCTGGGGCTCCGGCTCTC
ACACGCTGCCAGCTTTACTGGAGAACTTGAAGCTGCGTAAACAAAATAACGGTGCTTTTAAATGAAACGCTGTTCA
GAAACCAGTTGGCTCTAGCTACTTGGACTATTCAGGGAGCTGCAAATGCCCTCTCTGGTGACGTTTGGGACATTG
ACAATGAGTTTTAAATGTGATACCCATAGCTTCCATGAGAACAGCAGGGTAGTCTGGTTTCTAGACTTGTGCTGA
TCGTGCTAAATTTTCAGTAGGGCTACAAAACCTGATGTTAAATTTCCATCCCATCATCTTGGTACTACTAGATGT
CTTTAGGCAGCAGCTTTTAAACAGGGTAGATAACCTGTACTTCAAGTTAAAGTGAATAACCACITAAAAAATGT
CCATGATGGAATATTCCCCTATCTCTAGAATTTTAAAGTGCTTTGTAATGGGAACGCTCTTTCTGTTGTTGTT
AATGAAAATGTCAGAAACCAGTTATGTGAATGATCTCTCTGAATCCTAAGGGCTGGTCTCTGCTGAAGGTTGTAA
GTGGTCGCTTACTTTGAGTGATCCTCCAACCTCATTGATGCTAAATAGGAGATACCAGGTTGAAAGACCTTCTC
CAAATGAGATCTAAGCCTTTCCATAAGGAATGTAGCTGGTTTCTTCATTCTGAAAGAAACAGTTAACTTTTCAGA
AGAGATGGGCTTGTTTTCTTGCCAATGAGGTCTGAAATGGAGGTCTTCTGCTGGATAAAATGAGGTTCAACTGT
TGATTGCAGGAATAAGGCCTTAAATATGTTAACCTCAGTGTCATTATGAAAAGAGGGGACCAGAAGCCAAAGACT
TAGTATATTTTCTTTCTCTGCTCCCTTCCCCATAAGCCTCCATTTAGTTCTTTGTTATTTTTGTTTCTTCCAA
AGCACATTGAAAGAGAACCAGTTTCAGGTGTTTATGTTGCAGACTCAGTTTGTGAGACTTTAAAGAATAATATGCT
GCCAAATTTTGGCCAAAGTGTTAATCTTAGGGGAGAGCTTTCTGTCCTTTTTGGCACTGAGATATTTATGTTTTAT
TTATCAGTGACAGAGTTCATATAAATGGTGTTTTTTTAAATAGAAATATAATTATCGGAAGCAGTGCCCTCCATAA
TTATGACAGTTTACTGTGCGTTTTTTTTTAAATAAAAGCAGCATCTGCTAATAAAACCAACAGATACTGGAAGT
TTTGCATTTATGGTCAACACTTAAGGGTTTTAGAAAACAGCCGTGAGCCAAATGTAATGAATAAAGTTGAAGCT
AAGATTTAGAGATGAATTAATTTAATTAGGGGTGCTAAGAAGCGAGCACTGACCAGATAAGAATGCTGGTTTT
CCTAAATGCAGTGAATTGTGACCAAGTTATAAATCAATGTCACCTTAAAGGCTGTGGTAGTACTCTGCAAAATTT

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FIGURE 718B

TATAGCTCAGTTTATCCAAGGTGTAACCTCTAATTCCTTTTGCAAAATTTCCAGTACCTTTGTCACAATCCTAA
CACATTATCGGGAGCAGTGTCTTCCATAATGTATAAAGAACAAGGTAGTTTTTACCTACCACAGTGTCTGTATCG
GAGACAGTGATCTCCATATGTTACACTAAGGGTGTAAAGTAATTATCGGGAACAGTGTTCCTATAATTTCTTCA
TGCAATGACATCTTCAAAGCTTGAAGATCGTTAGTATCTAACATGTATCCCAACTCCTATAATTCCTATCTTTT
AGTTTTAGTTGCAGAAACATTTTGTGGTCATTAAGCATTGGGIGGGTAAATTCAACCACTGTAAAATGAAATTAC
TACAAAATTTGAAATTTAGCTTGGGTTTTTGTACCTTTATGGTTTCTCCAGGTCTCTACTTAATGAGATAGTA
GCATACATTTATAATGTTTGCTATTGACAAGTCATTTTAACCTTTATCACATTATTTGCATGTTACCTCCTATAAA
CTTAGTGCGGACAAGTTTTAATCCAGAATTGACCTTTTGACTTAAAGCAGGGGGACTTTGTATAGAAGGTTTGGG
GGCTGTGGGGAAGGAGAGTCCCCTGAAGGTCTGACACGCTGCTGCCTACCCATTCTGTGGTGATCAATTAAATGTAGG
TATGAATAAGTTCTGAAGCTCCGTGAGTGAACCATCATTATAAACGTGATGATCAGCTGTTTGTATAGGGCAGTT
GGAAACGGCCTCCTAGGGAAAAGTTCATAGGGTCTCTTCAGGTTCTTAGTGTCACCTACCTAGATTTACAGCCTC
ACTTGAATGTGTCACTACTCACAGTCTCTTTAATCTTCAGTTTTATCTTTAATCTCCTCTTTTATCTTGACTGA
CATTTAGCGTAGCTAAGTGAAAAGGTCTATAGCTGAGATTCTTGGTTCCGGGTGTTACGCACACGTACTTAAATGAA
AGCATGTGGCATGTTTCATCGTATAACACAATATGAATACAGGGCATGCATTTGCAGCAGTGAGTCTCTTCAGAA
AACCCTTTTCTACAGTTAGGGTTGAGTTACTTCTATCAAGCCAGTACGTGCTAACAGGCTCAATATTCCTGAAT
GAAATATCAGACTAGTGACAAGCTCCTGGTCTTGAGATGCTTCTCGTTAAGGAGATGGGCCCTTTGGAGGTAAA
GGATAAAATGAATGAGTTCTGTCATGATTCATATTCTAGAACTTGATGACCTTTACTGTGTTAGCTCTTTGAA
TGTTCTTGAAATTTTAGACTTTCTTTGTAAACAAATAATATGTCCTTATCATTGTATAAAAGCTGTTATGTGCAA
CAGTGTGGAGATTCCTTGCTGATTTAATAAAATACTTAAACACTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 719

MMDQARSASFNLFGGEPLSYTRFSLARQVDGDNHVMKLAVIDEENADNNTKANVTKPKRCSGSICYGTIAVIV
FFLIGFMIGYLG YCKGVEPKTECERLAGTESPVREEPGEDFPAARRLYWDDLKRKLSEKLDSTDFTGTIKLLNEN
SYVPREAGSQKDENLALYVENQFREFKLSKVWRDQHFKIQVKDSAQNSVIIVDKNGRLVYLVENPGGYVAYSKA
ATVTGKLVHANFGTKKDFEDLYTPVNGSIVIVRAGKITFAEKVANAESLNAIGVLIYMDQTKFP IVNAELSFFGH
AHLGTGDPYTPGFPSFNHTQFPSPRSSGLPNIPVQTISRAAAELFGNMEGDCPSDWKTDSTCRMVTSSEKNVKL
TVSNVLKEIKILNIFGVIKGFVEPDHYVVVGAQRDAWGPGAAGSGVGTALLKLAQMFSDMVLKDGFPSPRSIIF
ASWSAGDFGSGATEWLEGYLSSLHLKAFTYINLDKAVLGTSNFKVSASPLLYTLIEKTMQNVKHPVTGQFLYQD
SNWASKVEKLTLDNAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKELIERIPELNKVARAAAEVAGQFVIK
LTHDVELNLDYERYNSQLLSFVRDLNQYRADIKEMGLSLQWLYSARGDFFRATSRLTTFGNAEKTDRFVMKKLN
DRVMRVEYHFLSPYVSPKESPFRRHVFWGSGSHTLPALLENLKLKQNGAFNETLFRNQLALATWT IQGAANALS
GDVWDIDNEF

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FIGURE 720

GTCAC TCGTATAAAAACCTATGCTTTGAAGGTTCTCGTGTGTCTCGGCCTGCAGGTCTCGCTCAGAGCTGTGTCC
CTGAACATCCACCCTGCTGGGGTGGCTTGACGCACTTCTGTGCAAACTGTTCGCTCGCAACCCTACCTACCTCT
CTCCCGAACCGGAGAAAACTTCGGCGGGGTCCTTCCGGGTTTTGTGTGCAATCTGCGCGCGCGACCCGCGCGCG
CGTCACGCGGTGGTGAATGTGCGGCAGTACGCGCGCGCGCTCGTTTTACGCGGCGATTTCATCATGCTCCGAGCCG
GCGGCGCGCGCGCTTCCGTCGCCACCCTCTCTGGACAGCCAGGGCCGAGGCTCATGCCCTCTCCGCGTCCAG
TGCTGCTTAGAGGTGCTCGCGCGCTCTGCTGCTGCTGCTGCGCGCGCGCTCTTAGCCCGACCCTCGCTCCTCC
TCCGCGGTCCTCAGCGCGCGCTCTGCGCGCGATCTCCTTGCCCGCGCGCGCTCCCGGAGCAGCATGGACG
GCGCGGGGGCTGAGGAGGTGCTGGCACCTCTGAGGCTAGCAGTGCAGCAGCAGGAGATCTTGTGCGAAAACTCA
AAGAAGATAAAGCACCCCAAGTAGACGTAGACAAAGCAGTGGCTGAGCTCAAAGCCCGCAAGAGGGTTCTGGAAG
CAAAGGAGCTGGCGTTACAGCCCAAAGATGATATTGTAGACCGAGCAAAATGGAAGATACCCTGAAGAGGAGGT
TTTTCTATGATCAAGCTTTTGCTATTTATGGAGGTGTTAGTGGTCTGTATGACTTTGGGCCAGTTGGCTGTGCTT
TGAAGAACAATATTATTCAGACCTGGAGGCAGCACTTTATCCAAGAGGAACAGATCCTGGAGATCGATTGCACCA
TGCTCACCCCTGAGCCAGTTTTAAAGACCTCTGGCCATGTAGACAAATTTGCTGACTTCATGGTGAAAGACGTAA
AAAATGGAGAATGTTTTCTGTGCTGACCATCTATTAAGGCTCATTTACAGAAATTGATGTCTGATAAGAAGTGT
CTGTGCAAAAGAAATCAGAAATGAAAGTGTTTTGGCCAGCTTGATAACTATGGACAGCAAGAACTTGGCGATC
TTTTTGTAAGTATAATGTAATAATCTCCCATTTACTGAAATGATCTATCCCTCCAGTGTCTTTAACTTAATGT
TCAAGACTTTTATTGGGCTGGAGGAAACATGCCCTGGGTACTTGAGACCAGAACTGCACAGGGGATTTTCTTGA
ATTTCAAACGACTTTTGGAGTTCAACCAAGGAAAGTTGCCCTTTGCTGCTGCCAGATTGGAAATCTTTTAGAA
ATGAGATCTCCCTCGATCTGGACTGATCAGAGTCAGAGAATTCACAATGGCAGAAATTGAGCACTTTGTAGATC
CCAGTGAGAAAGACCACCCCAAGTTCCAGAATGTGGCAGACCTTACCTTTATTTGTATTAGCAAAAGCCAGG
TCAGCGGACAGTCCGCTCGGAAAAATGCGCTGGGAGATGCTGTTGAACAGGGTGTGATTAATAACACAGTATTAG
GCTATTTTCATTGGCCGATCTACCTCTACCTCACGAAGTTGGAATATCTCCAGATAAACTCCGCTTCCGGCAGC
ACATGGAGAATGAGATGGCCCATTTATGCCTGTGACTGTTGGGATGCAGAATCCAAAACATCTACGGTTGGATTG
AGATTGTTGGATGTGCTGATCGTTCTGTTATGACCTCTCCTGTCATGCACGAGCCACCAAGTCCCCTTTGTAG
CTGAGAAACCTCTGAAAGAACCCAAAACAGTCAATGTTGTTTCAGTTTGAACCCAGTAAGGGAGCAATTGGTAAGG
CATATAAGAAGGATGCAAACTGGTGATGGAGTATCTTGCCATTGTGATGAGTGCTACATTACAGAAATGGAGA
TGCTGCTGAATGAGAAAGGGGAATTCACAATTGAACTGAAGGGAAAACATTTTCAGTTAACAAAAGACATGATCA
ATGTGAAGAGATTCCAGAAAACACTATATGTGGAAGAAGTTGTTCCGAATGTAATTGAACCTTCTTCGGCCTGG
GTAGGATCATGTATACGGTATTTGAACATACATTCCATGTACGAGAAGGAGATGAACAGAGAACATTCTTCAGTT
TCCCTGCTGTAGTTGCTCCATTCAAATGTTCCGTCCTCCCACTGAGCCAAAACCAGGAGTTTCATGCCATTTGTCA
AGGAATTATCGGAAGCCCTGACCAGGCATGGAGTATCTCACAAGTAGACGATTCTCTGGGTCAATCGGAAGGC
GCTATGCCAGGACTGATGAGATTGGCGTGGCTTTTGGTGTACCATTTGACTTTGACACAGTGAACAGACCCCCC
ACACTGCAACTCTGAGGGACCGTACTCAATGCGGCAGATAAGAGCAGAGATCTCTGAGCTGCCCAGCATAGTCC
AAGACCTAGCCAATGGCAACATCACATGGGCTGATGTGGAGGCCAGGTATCCTCTGTTTGAAGGGCAAGAGACTG
GTAAAAAAGAGACAATCGAGGAATGAGGACAATTTTGACAACCTTTGACCCTTGCCTAATAAAAAAAAAAAAA
CTACTCTTATGTCCACTTTACAAAAGAAAACAGCATTTGTGATTACTCCCAGGGACCGTATTTTATCTTCAGTGGC
TGCTGATTTTACCCCAACAATTAAAGTTGAAGGAATCCTGA

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FIGURE 721

MDGAGAEVLAFLRLAVRQQGDLVRKLKEDKAPQVDVDKAVAEKARKRVLEAKELALQPKDDIVDRAKMEDTLK
RRFFYDQAFAIYGGVSGLYDFGPVGCALKNNIIQTRQHF IQEEQILEIDCTMLTPEPVLKTSGHVDKFADFMVK
DVKNCECFRADHLLKAHLQKLMSDKKCSVEKKSEMEVLAQLDNYGQOELADLFVYNVVKSPITGNDLSPVVSFN
LMFKTFIGPGGNMPGYLRPETAQGIFLNFKRLLEFNQGKLPFAAAQIGNSFRNEISPRSGLIRVREFTMAEIEHF
VDPSEKDHPKFQNVADLHLYLSAKAQVSGQSARKMRLGDAVEQGVINNTVLGYFIGRIYLYLTQVISPDKLRF
RQHMENEMAHYACDCWDAESKTSYGWIEIVGCADRSCYDLSCHARATKVPLVAEKPLKEPKTVNVVQFEPKSGAI
GKAYKDAKLVMEYLAICDECYITEMEMLLNEKGFTIETEGKTFQLTKDMINVKRFQKILYVEEVVNVNIEPSF
GLGRIMYTVFEHTFHVREGDEQRTFFSFPVAVAPFKCSVLPLSQNQEFMPFVKELSEALTRHGVSHKVDDSSGSI
GRRYARTDEIGVAFGVTIDFTVNKTPHTATLRDRDSMRQIRAEISELPSIVQDLANGNITWADVEARYPLFEGQ
ETGKKETIEE

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FIGURE 722

GTCCATGGGGACCCCTCGCCTTCGATGAATATGGGCGCCCTTTCTCATCATCAAGGATCAGGACCGCAAGTCCCG
TCTTATGGGACTTGAGGCCCTCAAGTCTCATATAATGGCAGCAAAGGCTGTAGCAAATACAATGAGAACATCACT
TGGACCAAATGGGCTTGATAAGATGATGGTGGATAAGGATGGGGATGTGACTGTAACTAATGATGGGGCCACCAT
CTTAAGCATGATGGATGTTGATCATCAGATTGCCAAGCTGATGGTGGAAGTGTCCAAGTCTCAGGATGATGAAAT
TGGAGATGGAACACAGGAGTGGTTGTCTGGCTGGTGCCTTGTTAGAAGAAGCGGAGCAATTGCTAGACCGAGG
CATTCACCCAATCAGAATAGCCGATGGCTATGAGCAGGCTGCTCGCGTTGCTATTGAACACCTGGACAAGATCAG
CGATAGCGTCTTGTGACATAAAGGACACCGAACCCCTGATTGAGACAGCAAAAACACGCTGGGCTCCAAAGT
GGTCAACAGTTGTACCGACAGATGGCTGAGATTGCTGTGAATGCCGTCTCCTACTGTAGCAGATATGGAGCGGAG
AGACGTTGACTTTGAGCTTATCAAAGTAGAAGGCAAAGTGGGCGGCAGGCTGGAGGACACTAACTGATTAAGGG
CGTGATTGTGGACAAGGATTTCACTCACCCACAGATGCCAAAAAAGTGGGAAGATGCGAAGATTGCAATTCTCAC
ATGTCCATTTGAACCAACCAACCAAAAAACAAAGCATAAGCTGGATGTGACCTCTGTGCAAGATTATAAAGCCCT
TCAGAAATACGAAAAGGAGAAATTTGAAGAGATGATTCAACAAATTAAGAGACTGGTGCTAACCTAGCAATTTG
TCAGTGGGGCTTTGATGATGAAGCAAATCACTTACTTCTTCAGAACAACCTGCGCTGCGGTTGCTGGGTAGGAGG
ACCTGAAATTGAGCTGATTGCCATCGCAACAGGAGGGCGGATCGTCCCCAGGTTCTCAGAGCTCACAGCCGAGAA
GCTGGGCTTTGCTGGTCTTGTACAGGAGATCTCATTGGGACAACATAAGGATAAAATGCTGGTCATCGAGCAGTG
TAAGAACTCCAGAGCTGTAACCATTTTTATTAGAGGAGGAAATAAGATGATCATTGAGGAGGCGAAACGATCCCT
TCACGATGCTTTGTGTGTCATCCGGAACCTCATCCGCGATAATCGTGTGGTGTATGGAGGAGGGGCTGCTGAGAT
ATCCTGTGCCCTGGCAGTTAGCCAAGAGGCGGATAAGTGCCCCACCTTAGAACAGTATGCCATGAGAGCGTTTGC
CGACGCACTGGAGGTCATCCCCATGGCCCTCTCTGAAAACAGTGGCATGAATCCCATCCAGACTATGACCGAAGT
CCGAGCCAGACAGGTGAAGGAGATGAACCCTGCTCTTGGCATCGACTGTTGCACAAGGGGACAAATGATATGAA
GCAACAGCATGTCATAGAAACCTTGATTGGCAAAAAGCAACAGATATCTCTTGCAACACAAATGGTTAGAATGAT
TTTGAAGATTGATGACATTTCGTAAGCCTGGAGAATCTGAAGAATGAAGACATTGAGAAAACCTATGTAGCAAGATC
CACTTCTGTGATTAAGTAAATGGATGTCTCGTGATGCGTCTACAGTTATTTATTGTTACATCCTTTTCCAGACAC
TGTAGATGCTATAATAAAAATAGCTGTTTGGTAACCATAGTTTCACTTGTTCAAAGCTGTGTAATCGTGGGGGTA
CTATCTCAACTGCTTTTGTATTGATTGATTAATAAAGAACTGTTTAAACAACCTTTATCTTCTCTCGGGTTTAA
GAAACGTTTATTGTAAACAGTAATTAATGCTGCCTTAATTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 723

SMGTLAFDEYGRPFLLIKDQDRKSRLMGLEALKSHIMAAKAVANTMRTSLGPNGLDKMMVDKDGDTVTVNDGATI
LSMMDVDHQIAKLMVELSKSQDDEIGDGTGTVVLAGALLEEAEQLLDRGIHPIRIADGYEQARVAIEHLDKIS
DSVLVDIKDTEPLIQTAKTTLGSKVVNSCHROMAEIAVNAVLTVADMERRDVDFELIKVEGKVGGRLDTKLIK
VIVDKDFSHPQMPKKVEDAKIAILTCPFEPKPKTKHKLDVTSVEDYKALQKYEKEKFEEMIQQIKETGANLAIC
QWGFDDANHLLQNNLPAVRWVGPEIELIAIATGGRIVPRFSELTAEKLGFAGLVQEISFGTTKDKMLVIEQC
KNSRAVTIFIRGGNKMIIEEAKRSLHDALCVIRNLIRDNRVYGGGAAEISALAVSQEADKCPTLEQYAMRAFA
DALEVIPMALENSGMNPIQTMTEVRARQVKEMNPALGIDCLHKGTDNDMKQHVETLIGKKQQISLATQMVIRMI
LKIDDIRKPGEESEE

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FIGURE 724

CGTTGAAGACATTGTCGGGTGGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCG
TCTGACTTCCCGTCCGTGCCGAGCCCACTCGAGCCGCAGCCATGTCTGGGGACGAGATGATTTTTGATCCTACTA
TGAGCAAGAAGAAAAAGAAGAAGAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCC
AGCCTTCAGAAACAAAAGAAGTGGAGCCAGAGCCAACCTGAGGACAAGGATTTGGAAGCTGATGAAGAGGACACTA
GGAAAAAGATGCTTCTGATGATCTAGATGACTTGAACCTTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAA
AGATATTTGATATTGATGAAGCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTG
AACCAGAGGATGACCTTGACATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGATGTTAAGTTCCCAGATGAGG
ATGAAATACTAGAGAAAGATGAAGCTCTAGAAGATGAAGACAACAAAAAGATGATGGTATCTCATTTCAGTAATC
AGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCA
TGAGGGAAAAGAATCCAGATATGGTTGCTGGGGAGAAAAGGAAATTTGTCATGAAACCTCCACAAGTCGTCCGAG
TAGGAACCAAGAAAACCTTCTTTTGTCAACTTTACAGATATCTGTAACTATTACATCGTCAGCCCAAACATCTCC
TTGCATTTTGTGGCTGAATTGGGTACAAGTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGAT
TCCAACAGAAACAGATAGAAAATGTCTTGAGAAGATATATCAAGGAATATGTCACCTTGTACACATGCCGATCAC
CGGACACAATCCTGCAGAAGGACATACGACTCTATTTCTACAGTGCGAACTTGTCAATTCTAGATGTTCTGTTG
CCAGTATCAAAACCGGCTTCCAGGCTGTACGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACTTAATTTGCTA
ATCACTGATTTTGCAAAGCTTGTTGTGGAGATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATACCGTTGTAT
TAAAAACAAGATAAAAAAGCTGCCAAGATTTTGGCGAGTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTC
AAGCTGTTGACATACTCATTCGCTACTTTAACACCTGTGAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTT
AAAATCGTTCATAGACTTCTGTAAAATGCAAGATAAATTAAAGTTATTATAACAGTGATTCTTTCA

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FIGURE 725

MSGDEMIFDPTMSKKKKKKKKPFMLDEEGDTQTEETQPSETKEVEPEPTEDKDLEADEEDTRKKDASDDLDDLNF
FNQKKKKKKTKKIFDIDEAEEGVKDLKIESDVQEPTPEDDLDIMLGNNKKKKKNVKFPDEDEILEKDEALEDED
NKKDDGISFSNQTGPAWAGSERDYTYEELLNRVFNIMREKNPDMVAGEKRKFVMKPPQVVRVGTKKTSFVNFTDI
CKLLHRQPKHLLAFLLAELGTSGSIDGNNQLVIKGRFQQKQIENVLRRYIKEYVTCHTCRSPDTILQKDIRLYFL
QCETCHSRCVASIKTGFQAVTGKRAQLRAKAN

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FIGURE 726

AATTCGGGGGCCGTGGAGTTTGTGACATACGAGGTGACACCCCTCGAGTCACTTCCCTTCAACTCCAGCTGGAGC
GCCTGCTTGGCTTTGGGTTTCGTTCTGCAGCCTTCGCCCCGCTCCTAGCCTCAGGGCCGGACTCCAGCGCAGAGCC
CAGCCCAGCGCAGCCTGCCAGCAGCCACCCAGCCGCCAGCCGCCCCAGCCCGCACGAAACCCGGCCAGAGCTTC
CTAGCAGCCCCGAGCCATGAACACCGAAATGTATCAGACCCCCATGGAGGTGGCGGTCTACCAGCTGCACAATTTT
TCCATCTCCTTCTTCTCTCTGCTTGGAGGGGATGTGGTTTCCGTTAAGCTGGACAACAGTGCCTCCGGAGCC
AGCGTGGTGGCCATAGACAACAAGATCGAACAGGCCATGGATCTGGTGAAGAATCATCTGATGTATGCTGTGAGA
GAGGAGGTGGAGATCCTGAAGGAGCAGATCCGAGAGCTGGTGGAGAAGAACTCCCAGCTAGAGCGTGAGAACACC
CTGTTGAAGACCCTGGCAAGCCCAGAGCAGCTGGAGAAGTTCCAGTCTGTCTGAGCCCTGAAGAGCCAGCTCCC
GAATCCCCACAAGTGGCCGAGGCCCTGGTGGTTCTGCGGTGTAAGTGGCTCTGTCTCAGGGTGGGCAGAGCCA
CTAAACTTGTTTTACCTAGTTCTTTCCAGTTTGTTTTGGCTCCCCAAGCATCATCTCACGAGGAGAACTTTACA
CCTAGCACAGCTGGTGCCAAGAGATGTCCTAAGGACATGGCCACCTGGGTCCACTCCAGCGACAGACCCCTGACA
AGAGCAGGTCTCTGGAGGCTGAGTTGCATGGGGCCTAGTAACACCAAGCCAGTGAGCCTCTAATGCTACTGCGCC
CTGGGGGCTCCCAGGGCCTGGGCAACTTAGCTGCAACTGGCAAAGGAGAAGGGTAGTTTGAGGTGTGACACCAGT
TTGCTCCAGAAAGTTTAAAGGGTCTGTTTCTCATCTCCATGGACATCTTCAACAGCTTCACCTGACAACGACTGT
TCCTATGAAGAAGCCACTTGTTGTTTTAAGCAGAGGCAACCTCTCTCTCTCTCTCTGTTTCGTGAAGGCAGGGGAC
ACAGATGGGAGAGATTGAGCCAAGTCAGCCTTCTGTTGGTTAATATGGTATAATGCATGGCTTTGTGCACAGCCC
AGTGTGGGATTACAGCTTTGGGATGACCGCTTACAAAGTTCTGTTTGGTTAGTATTGGCATAGTTTTTCTATATA
GCCATAAATGCGTATATATACCCATAGGGCTAGATCTGTATCTTAGTGTAGCGATGTATACATATACACATCCAC
CTACATGTTGAAGGGCCTAACCAGCCTTGGGAGTATTGACTGGTCCCTTACCTCTTATGGCTAAGTCTTTGACTG
TGTTTATTACCAAGTTGACCCAGTTTGTCTTTTAGGTTAAGTAAGAAGTTCGAGAGTAAAGGCAAGGAGGGGGGC
CAGCCTCTGAATGCGGCCACGGATGCCTTGCTGCTGCAACCCCTTCCCCAGCTGTCCACTGAAACGTGAAGTCCT
GTTTTGAATGCCAAACCCACCATTCACTGGTGCTGACTACATAGAATGGGTTGAGAGAAGATCAGTTTGGGCTTC
ACAGTGTCAATTTGAAAAGCGTTTTTGTGTTTTGTAATTATGTGGAAAACCTTCAAGTGAACAGAAGGATGG
TGTCCTACTGTGGATGAGGGATGAACAAGGGGATGGCTTTGATCCAATGGAGCCTGGGAGGTGTGCCAGAAAGC
TTGTCTGTAGCGGGTTTTGTGAGAGTGAACACTTTCCACTTTTGACACCTTATCCTGATGTATGGTTCCAGGAT
TTGGATTTTGATTTTCCAATGTAGCTTGAAATTTCAATAAACTTTGCTCTGTTTTTCTAAAAATAAAAA

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FIGURE 727

MNTEMYQTPMEVAVYQLHNFSISFFSSLLGGDVVSVKLDNSASGASVVAIDNKIEQAMD LVKNHLMYAVREEVEI
LKEQIRELVEKNSQLERENTLLKTLASPEQLEKFQSCLSPEEPAPESPQVPEAPGGS AV

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FIGURE 728

ATGGCGGCGGCGGCGGTGGTGGAGTTCCAGAGAGCCCAGTCTCTACTCAGCACCGACCGGGAGGCCTCCATCGAC
ATCCTCCACTCCATCGTGAAGCGTGACATTGAGGAAAACGATGAAGAGGCAGTGCAAGTCAAAGAGCAGAGCATC
CTGGAACTGGGATCTCTCCTGGCAAAGACTGGACAAGCTGCAGAGCTTGGAGGACTCCTGAAGTATGTACGACCC
TTCTTGAATTCCATCAGCAAGGCTAAAGCAGCTCGCCTGGTCCGATCTCTTCTTGATCTGTTTCTTGATATGGAA
GCAGCTACAGGGCAGGAGGTGAGCTGTGTTTAGAGTCCATCGAATGGGCCAAGTCAGAGAAAAGAACTTCTTA
CGCCAAGCTTTGGAGGCAAGACTGGTGTCTTTGTACTTTGATACCAAGAGGTACCAGGAAGCATTGCATTGGGT
TCTCAGCTGCTGCGGGAGTTGAAAAAGATGGACGACAAAGCTCTTTTGGTGAAGTACAGCTTTTAGAAAGCAAA
ACATACCATGCCCTGAGCAACCTGCCGAAAGCCCGAGCTGCCTTAACTTCTGCTCGAACCACAGCAAATGCCATC
TACTGCCCCCTAAATTGCAGGCCACCTTGGACATGCAGTCGGGTATTATCCATGCAGCAGAAGAGAAGGACTGG
AAACTGCGTACTCATACTTCTATGAGGCATTTGAGGGTTATGACTCCATCGACAGCCCCAAGGCCATCACATCT
CTGAAGTACATGTTGCTGTGCAAAATCATGCTCAACACCCCAAGATGTCCAGGCTTTGGTGAGCGGGAAGCTT
GCACTTCGGTATGCAGGGAGGCAGACAGAAGCATTAAATGCGTGGCTCAGGCTAGCAAGAACAGATCACTGGCA
GATTTTGAAAAGGCTCTGACAGATTACCGGGCAGAGCTCCGGGATGACCCAATCATCAGCACACACTTGGCCAAG
TTGTATGATAACTTACTAGAACAGAATCTGATCCGAGTCATTGAGCCTTTTCCAGAGTACAGATTGAACACATA
TCTAGTCTCATCAAATCTCCAAGGCCGACGTGGAAGGAAATTATCACAGATGATTCTTGACAAGAAATTCAT
GGGATTTTGGACCAGGGGGAGGGTGTCTGATTATTTTCGATGAACCCCAAGTAGATAAACTTACGAAGCTGCT
CTGGAACAATTGAGCAATGAGCAAAGTAGTGGATTCCCTCTACAACAAAGCCAAGAACTGACATAG

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FIGURE 729

MAAAVVEFQRAQSLLSTDREASIDILHSIVKRDIQENDEEAVQVKEQSILELGSLLAKTGQAAELGGLLKYYVRP
FLNSISKAKAARLVRSLLDLFLDMEAATGQEVCLCLESIEWAKSEKRTFLRQALEARLVSLYFDTKRYQEALHLG
SQLRELKKMDDKALLVEVQLLESKTYHALSNLPKARAALTSARTTANAIYCPPKLQATLDMQSGIIHAAEEKDW
KTAYSIFYEAFEGYDSIDSPKAITSLKYMLLCKIMLNTPEDVQALVSGKLALRYAGRQTEALKCVAQASKNRS
LADFEKALTDYRAELRDDPIISTHLAKLYDNLLEQNLRVIEPFSRVQIEHISSLIKLSKADVERKLSQMILDKKFH
GILDQGEGLIIFDEPPVDKTYEAALETIQNMSKVVDSLYNKAKKLT

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FIGURE 730

ACGTGTATCGCTGCCGTCAAGATCGAGGGGCGCTTTGTCCGTGTTTCGGTGACCGCAGCACTGGGGAAACGATCCGC
TCCCAAACGTTATGGCTGCAGCTTCGATTGCCAATATTGTAAAAAGTTCTCTTGGTCCAGTTGGCTTGGATAAA
ATGTTGGTGGATGATATTGGTGATGTAACCATTACTAACGATGGTGCAACCATCCTGAAGTTACTGGAGGTAGAA
CATCCTGCAGCTAAAGTTCTTTGTGAGCTGGCTGATCTGCAAGACAAAGAAGTTGGAGATGGAACACTTTCAGTG
GTTATTATTGCAGCAGAACTCCTAAAAATGCAGATGAATTAGTCAAACAGAAAATTCATCCACATCAGTTATT
AGTGGCTATCGACTTGCTTGCAAGGAAGCAGTGGCTTATATCAATGAAAACCTAATTGTTAACACAGATGAAC TG
GGAAGAGATTGCCTGATTAATGCTGCTAAGACATCCATGTCTTCCAAAATCATTGGGATAAATGGTGATTTCCTT
GCTAACATGGTAGTAGATGCTGTACTTGTATTAAATACACAGACATAAGAGGCCAGCCACGCTATCCAGTCAAC
TCTGTTAATATTTTGAAGCCCATGGGAGAAGTCAAATGGAGAGTATGCTCATCAGTGGCTATGCACTCAACTGT
GTGGTGGGATCCCAGGGCATGCCAAGAGAATCGTAAATGCAAAAATTGCTTGCTTGACTTCAGCCTGCAAAAA
ACAAAATGAAGCTTGGTGACAGGTGGTCATTACAGACCCTGAAAAACTGGACCAAATTAGACAGAGAGAATCA
GATATCACCAGGAGAGAAATTCAGAAGATCCTGGCAACTGGTGCCAATGTTATTCCTAACCACTGGTGAATTTGAT
GATATGTGTCTGAAGTATTTTGTGGAGGCTGGTGCTATGGCAGTTAGAAGAGTTTAAAAAGGGACCTTAAACGC
ATTGCCAAAGCTTCTGGAGCAACTATTCTGTCAACCCTGGCCAAATTTGGAAGGTGAAGAACTTTTGAAGCTGCA
ATGTTGGGACAGGCAGAGAAGTGGTACAGGAGAGAATTTGTGATGATGAGCTGATCTTAATCAAAAATACTAAG
GCTCGTACGTCTGCATCGATTATCTTACGTGGGGCAATGATTTCATGTGTGATGAGATGGAGCGCTCTTTACAT
GATGCACCTTTGTGTAGTGAAGAGAGTTTTGGAGTCAAAATCTGTGGTTCCCGGTGGGGGTGCTGTAGAAGCAGCC
CTTTCCATATACCTTGAAAACATGCAACCAGCATGGGGTCTCGGGAACAGCTTGCGATTGCAGAGTTTGCAAGA
TCACTTCTTGTTATTCCCAATACACTAGCAGTTAATGCTGCCAGGACTCCACAGATCTGGTTGCAAAATTAAGA
GCTTTTCATAATGAGGCCAGGTTAACCCAGAACGTAAAAATCTAAAATGGATTGGTCTTGATTGAGCAATGGT
AAACCTCGAGACAACAAACAAGCAGGGGTGTTTGAACCAACCATAGTTAAAGTTAAGAGTTTGAATTTGCAACA
GAAGCTGCAATCACCATTCTTCGAATTGATGATCTTATTAAATTACATCCAGAAATCCTTCGGATTAAACATGGA
AGTTATGAAGATGCTGTTCACTCTGGAGCCCTTAATGATTGATCTGATGTTCTTTTATTATAACAATGTTAAA
TGCAATGCTTGTACCTTGAGTTGAGTATTACACATTAAAGTAAAGTACAAGCTGTAAACTTGGGTTTTTGTGAT
GTAGGAAATGGTTTCCATCTGTACTTTGGTCCTCTGATTTTCAGATATTGCAACCTAGTACTTTATTAGTTTAAAA
AGAAATTGAGGTTGTTCAAAGTTTAAAGCAATTCATTCTCTCTGAACACACATTGCTATTCCCATCCCACCCCAA
TGCAACAGGGCTGCAACACCACGACTTCTGCCATTCTCTCCAGTGTGTGTAACAGGGTCACAAGAATTC

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FIGURE 731

MEGPLSVFGDRSTGETIRSQNVMAAASIANIVKSSLGPFVGLDKMLVDDIGDVTITNDGATILKLLEVEHPAAKVL
CELADLQDKEVGDTTSVVIIAAELLKNADELVKQKIHTSVISGYRLACKEAVRYINENLIVNTDELGRDCLIN
AAKTSMSKKIIGINGDFFANMVVDVLAIKYTDIRGQPRYPVNSVNILKAHGRSQMESMLISGYALNCVVGSGQM
PKRIVNAKIACLDFSLQKTKMKLGVQVVIDPEKLDQIRQRES DITKERIQKILATGANVILTTGGIDDMCLKYF
VEAGAMAVRRVLKRD LKRIAKASGATILSTLANLEGEETFEAAMLGQAEEVVQERICDDELILIKNTKARTSASI
ILRGANDFMCDEMERSLHDALCVVKRVLESKSVVPGGGAVEAALSIYLENYATSMGSREQLAIAEFARSLVIPN
TLAVNAAQDSTD LVAKLRAFHNEAQVNPERKNLKWIGLDLSNGKPRDNKQAGVFPTIVKVKSLKFATEAAITIL
RIDDLIKLHPEILRIKHGSYEDAVHSGALND

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FIGURE 732

GCTTTCTTTCCGTCGCAGAGAGCATCGGCCGGCGACCGTTCCGGCGGCCATTGCGAAAACCTCCCCACGGCTACT
GCGTCCACGTGGCGGTGGCGTGGGGACTCCCTGAAAGCAGAGCGGCAGGGCGCCCGGAAGTCGTGAGTCGAGTCT
TCCCGGGCTAATCCATGCGCGGTGGAGGCTGCTGACGCAGGTCGGCGCCAGGTGCTGGGTGCGACTCGGGGACG
GCCTGGGTGCTGCCCTGGGCCCCGGGGAACAGAACACACATCTGGCTTTTGTAGAGGTCTTCATGGAAAGAGTG
GTACATGGTGGGATGAGCATCTTTCTGAAGAAAATGTCCCATTCATTAAGCAGTTGGTCTCTGATGAAGATAAAG
CCCAATTAGCAAGTAAACTGTGTCTCTGAAAGATGAACCATGGCCTATACATCCTTGGGAACCAGGTTCCCTTA
GAGTTGGTCTTATTGCCTTGAAGCTGGGCATGATGCCTTTATGGACCAAGGATGGTCAAAGCATGTGGTCACAT
TACTTCAGGTACAAGACTGTATGTCTTAAATATACGTCAAAGGAAAACCTGTAATGGAAAAATGGCAACCCTGT
CTGTAGGAGGAAAACTGTATCACGTTTTCGTAAAGCTACATCCATATTGGAATTTTACCGGGAACCTGGATTGC
CGCCGAAACAGACAGTTAAATCTTTAATATAACAGATAATGCTGCAATTAAACCAGGCACTCCTCTTTATGCTG
CTCACTTTCGTCCAGGACAGTATGTGGATGTCACAGCCAAAACCTATTGGTAAAGGTTTTCAAGGTGTCATGAAAA
GATGGGGATTAAAGGCCAGCCTGCTACGCATGGTCAAACGAAAACCCACAGGAGACCTGGAGCTGTTGCAACTG
GTGATATTGGCAGAGTCTGGCCTGGAACTAAAATGCCTGGAAAAATGGGAAACATATACAGGACAGAATATGGAC
TGAAAGTGTGGAGAATAAACACAAAGCACAAACATAATCTATGTAAATGGCTCTGTACCTGGACATAAAAAATTGCT
TAGTAAAGGTCAAAGATTCTAAACTGCCTGCATATAAGGATCTCGGTAAAAATCTACCATTCCTTACATATTTTC
CTGATGGAGATGAAGAGGAAGTCCAGAAAGATTGTATGATGAAAACGTGTGTAGCCCGGTGCGCCTTCTATTA
CATTTGCCATAACATCTTTGGACGTGGCAGAACCTTACATATTCTGTGAGCTTCGATGAGCCAGAGTGATATCATA
ACCACCAGAAATCATACTCTCCTTTCTTAGTCAACAACAAAATCACACATGTATCTTTGTCAAGGGCATAAATAT
ATCATTATACCCCCATTAAATTTTGTAGAAAAATTACCACATTAAATATATGAGTTAAGTAGATTGGATTGCG
TGAAATTGGTGTGGGCATATTAGCAAAATATTCTTAATTTGTGGACTCGATTCTTTTTTACTACATATTTCCCA
AGTTATCTTAAGATGTCTGTAAATTTAACTTTTATTAAAGTTTTGTCAATCTTTGTGAAATAGTGGTTGTGGAAC
AGTAGAAAACCATATGGGGACTATAGTGCAACCTATTTGGGTAAAGAAACCATTTGCTAAATGGAGAAAGTAAA
TAGATTTTATTTAAATTACAGAAACATGTTAAAGGCCGGACAAAGGAAAGACAATAAAATCATAAATTATCGGT
CCTGTTTAAAAA

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FIGURE 733

MPGWRLLTQVGAQVLGRLGDGLGAALGPGNRTHIWL FVRGLHGKSGTWWEHLSEENVPF IKQLVSD EDKAQLAS
KLCPLKDEFWPIHPWEPGSFRVGLIALKLGMMPLWTKDGQKHVVTL LQVQDCHVLKYTSKENCNGKMATLSVG GK
TVSRFRKATSILEFYRELGLPPKQTVKIFNITDNAAIKPGTPLYAAHFRPGQYVDVTAKTIGKGFQGV MKRWGFK
GQPATHGQTKTHRRPGAVATGDIGRVWPGTKMPGKMGN IYRTEYGLKVWRINTKHNI IYVNGSVPGHKNC LVKVK
DSKLPAYKDLGKNLPFPTYFPDGDEEELPEDLYDENVCQPGAPSITFA

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FIGURE 734A

CGCCGCGGTGCTGAGGGGGAGGGGAGCCGGCGAGCGCGCGCAGCGGGGCGCGGGTGGCGCGCGTGTGTGTGA
AGGGGGGGCGGTGGCCGAGGCGGGCGGGCGCGCGCGAGGCTTCCCCTCGTTTGGCGGCGGCGGCGGCTTCTTT
GTTTCGTGAAGAGAAGCGAGACGCCCATTCTGCCCCGGCCCCGCGCGGAGGGGCGGGGAGCGCCGGGAAGTC
GACGGCGCCGGCGGCTCCTGCGAGGAGGCCACTGTCTGCAGCTCCCGTGAAGATGTTCCACTCCAGACCCACCCCTG
GGCGGAACCTCTCGGGCAGGTCCTTCCCCGGGCCCTGGCCCTTCCCCTGGAGCCATGCTGGGCCCTAGCCCGGGT
CCCTCGCCGGGCTCCGCCCACAGCATGATGGGGCCCCAGCCCAGGGCCGCCCTCAGCAGGACACCCCATCCCCACC
CAGGGGCCCTGGAGGGTACCCTCAGGACAACATGCACCAGATGCACAAGCCCATGGAGTCCATGCATGAGAAGGGC
ATGTGCGACGACCCGCGCTACAACCAGATGAAAGGAATGGGGATGCGGTGAGGGGGCCATGCTGGGATGGGGCCC
CCGCCAGCCCATGGACCAGCACTCCCAAGTTACCCCTCGCCCTGGGTGGCTCTGAGCATGCCTCTAGTCCA
GTTCCAGCCAGTGGCCCGTCTTCGGGGCCCCAGATGTCTTCGGGGCCAGGAGTGGCCCGCTGGATGGTGCTGAC
CCCCAGGCCTTGGGGCAGCAGAACCAGGGGCCAACCCCATTTAACCAGAACCAGCTGCACCAGCTCAGAGCTCAG
ATCATGGCCTACAAGATGCTGGCCAGGGGGCAGCCCTCCCGACCACTGCAGATGGCGGTGCAGGGCAAGCGG
CCGATGCCCCGGGATGCAGCAGCAGATGCCAACGCTACCTCCACCTCGGTGTCCGCAACAGGACCCGGCCCTGGC
CCTGGCCCTGGCCCGCGCCGGGTCCCGGCCCGCACCTCCAAATTACAGCAGGCCCTCATGGTATGGGAGGGCCC
AACATGCCTCCCCAGGACCTCGGGCGTGCCCCCGGGATGCCAGGCCAGCCTCCTGGAGGGCCTCCCAAGCCC
TGCCCTGAAGGACCCATGGCGAATGCTGCTGCCCCACGAGCACCCCTCAGAAGCTGATTCCCCCGAGCCAACG
GGCCGCCCTTCCCCCGCGCCCCCTGCCGTCCACCCGCGCCCTCGCCCGTATGCCACCGCAGACCCAGTCCCCC
GGGCAGCCGGGCCAGCCGCGCCCATGGTGCCACTGCACCAGAAGCAGAGCCGCATCACCCCATCCAGAAGCCG
CGGGGCTCGACCTGTGGAGATCCTGCAGGAGCGCGAGTACAGGCTGCAGGCTCGCATCGCACACCGAATTACAG
GAACTTGAAACCTTCCCGGTCCCTGGCCGGGGATTGCGAACCAGCGACCATGAGCTCAAGGCCCTCAGG
CTGCTGAACCTCCAGAGCAGCTGCGCCAGGAGGTGGTGGTGTGATGCGGAGGGACACAGCGCTGGAGACAGCC
CTCAATGCTAAGCCCTACAAGCGCAGCAAGCGCCAGTCCCTGCGCGAGGCCCGCATCACTGAGAAGCTGGAGAAG
CAGCAGAAGATCGAGCAGGAGCGCAAGCGCCGCGCAGAAGCACCAGGAATACCTCAATAGCATTCTCCAGCATGCC
AAGGATTTCAAGGAATATCACAGATCCGTACAGGCAAAATCCAGAAGCTGACCAAGGCAGTGGCCACGTACCAT
GCCAACACGGAGCGGGAGCAGAAGAAAGAGAACGAGCGGATCGAGAAGGAGCGCATGCGGAGGCTCATGGCTGAA
GATGAGGAGGGGTACCGCAAGCTCATCGACCAGAAGAAGGACAAGCGCCTGGCCTACCTCTTGACGACAGAC
GAGTACGTGGCTAACCTCACGGAGCTGGTGCGGCAGCACAAAGGCTGCCAGGTGCGCAAGGAGAAAAAGAAGAAA
AAGAAAAAGAAGAAGGCAGAAAATGCAGAAGGACAGACGCTGCCATTGGGCCGGATGGCGAGCCTCTGGACGAG
ACCAGCCAGATGAGCGACCTCCCGGTGAAGGTGATCCAGTGGAGAGTGGGAAGATCCTCACAGGCACAGATGCC
CCCAAAGCCGGGCAGCTGGAGGCCCTGGCTCGAGATGAACCCGGGGTATGAAGTAGCTCCGAGGTCTGATAGTGAA
GAAAGTGGCTCAGAAGAAGAGGAAGAGGAGGAGGAAGAGCAGCCGAGGCAGCACAGCCTCCACCCCTGCCC
GTGGAGGAGAAGAAGAAGATTCCAGATCCAGACAGCGATGACGTCTCTGAGGTGGACGCGCGGCACATCATTGAG
AATGCCAAGCAAGATGTCGATGATGAATATGGCGTGTCCAGGCCCTTGACAGTGGCTGCAGTCTACTATGCC
GTGGCCCATGCTGTCACTGAGAGAGTGGACAAGCAGTCAGCGCTTATGGTCAATGGTGTCTCAAACAGTACCAG
ATCAAAGGTTTGGAGTGGCTGGTGTCCCTGTACAACAACAACCTGAACGGCATCCTGGCCGACGAGATGGGCCTG
GGGAAGACCATCCAGACCATCGCGTCTATCACGTACCTCATGGAGCACAACGCATCAATGGGCCCTTCCCTCATC
ATCGTGCTCTCTCAACGCTGTCCAACCTGGGCGTACGAGTTTGACAAGTGGGCCCCCTCCGTGGTGAAGGTGTCT
TACAAGGGATCCCCAGCAGCAAGACGGGCCTTTGTCCCCAGCTCCGGAGTGGGAAGTTCAACGTCTTGCTGACG
ACGTACGAGTACATCATCAAGACAAGCACATCCTCGCCAAGATCCGTTGGAAGTACATGATTGTGGACGAAGGT
CACCGCATGAAGAACCACCACTGCAAGCTGACGCAGGTGCTCAACACGCACTATGTGGCACCCCGCGCCCTGCTG
CTGACGGGCACACCGCTGCAGAACAAGCTTCCCGAGCTCTGGGCGCTGCTCAACTTCTGCTGCCACCATCTTC
AAGAGCTGCAGCACCTTCGAGCAGTGGTTAACGCACCCCTTTGCCATGACCGGGGAAAAGGTGGACCTGAATGAG
GAGGAAACCATTTCTCATCATCCGGCGTCTCCACAAAGTGCTGCGGCCCTTCTTGCTCCGACGACTCAAGAAGGAA
GTCGAGGCCCAGTTGCCCAGAAAGGTGGAGTACGTCAATGCGACATGTCTGCGCTGCAGCGAGTGTCTTAC
CGCCACATGCAGGCCAAGGGCGTGCTGCTGACTGATGGCTCCGAGAAGGACAAGAAGGGCAAAGGCGGCACCAAG
ACCTGATGAACACCATCATGCAGCTGCGGAAGATCTGCAACCACCCCTACATGTTCCAGCACATCGAGGAGTCC
TTTTCCGAGCACTTGGGGTTCACTGGCGGCATTGTCCAAGGGCTGGACCTGTACCGAGCCTCGGGTAAATTTGAG
CTTCTTGATAGAATTCTTCCAAACTCCGAGCAACCAACCACAAAGTGTGCTGTTCTGCCAAATGACCTCCCTC

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FIGURE 734B

ATGACCATCATGGAAGATTACTTTGCGTATCGCGGCTTTAAATACCTCAGGCTTGATGGAACCACGAAGGCGGAG
GACCGGGGCATGCTGCTGAAAACCTTCAACGAGCCCGGCTCTGAGTACTTCATCTTCCTGCTCAGCACCCGGGCT
GGGGGGCTCGGCCTGAACCTCCAGTCGGCAGACACTGTGATCATTTTTGACAGCGACTGGAATCCTCACCAGGAC
CTGCAAGCGCAGGACCGAGCCACCGCATCGGCAGCAGAACGAGGTGCGTGTGCTCCGCCTCTGCACCGTCAAC
AGCGTGGAGGAGAAGATCCTAGCTGCAGCCAAGTACAAGCTCAACGTGGACCAGAAGGTGATCCAGGCCGGCATG
TTCGACCAGAAGTCCTCCAGCCATGAGCGGCGCGCTTCCTGCAGGCCATCCTGGAGCACGAGGAGCAGGATGAG
AGCAGACACTGCAGCACGGGACGGCAGTGGCAGCTTCGCCCACACTGCCCTCCGCCAGCGGGCGTCAACCCC
GACTTGGAGGAGCCACCTCTAAAGGAGGAAGACGAGGTGCCGACGACGAGACCGTCAACCAGATGATCGCCCCG
CACGAGGAGGAGTTTGATCTGTTTCATGCGCATGGACCTGGACCGCAGGCGCGAGGAGGCCGCAACCCCAAGCGG
AAGCCGCGCTCATGGAGGAGGACGAGCTCCCTCGTGGATCATCAAGGACGACGCGGAGGTGGAGCGGCTGACC
TGTGAGGAGGAGGAGGAGAAGATGTTTCGGCCGTGGCTCCCGCCACCGCAAGGAGGTGGACTACAGCGACTACTG
ACGGAGAAGCAGTGGCTCAAGGCCATCGAGGAGGGCAGCGTGGAGGAGATCGAAGAGGAGGTCCGGCAGAAGAAA
TCATCACGGAAGCGCAAGCGAGACAGCGACGCGGCTCCTCCACCCCGACCACCAGCACCCGAGCCGCGACAAG
GACGACGAGAGCAAGAAGCAGAAGAAGCGCGGGCGGCCCTGCCGAGAACTCTCCCCTAACCCACCCAACTC
ACCAAGAAGATGAAGAAGATTGTGGATGCCGTGATCAAGTACAAGGACAGCAGCAGTGGACGTCAGCTCAGCGAG
GTCTTCATCCAGCTGCCCTCGCGAAAGGAGCTGCCGAGTACTACGAGCTCATCCGCAAGCCCGTGGACTTCAAG
AAGATAAAGGAGCGCATTTCGCAACCACAAGTACCGCAGCCTCAACGACCTAGAGAAGGACGTCATGCTCCTGTGC
CAGAACGCACAGACCTTCAACCTGGAGGGCTCCCTGATCTATGAAGACTCCATCGTCTTGCACTCGGTCTTACC
AGCGTGGCGCAGAAAATCGAGAAGGAGGATGACAGTGAAGGCGAGGAGAGTGAGGAGGAGGAAGAGGGCGAGGAG
GAAGGCTCCGAATCCGAATCTCGGTCCGTCAAAGTGAAGATCAAGCTTGGCCGGAAGGAGAAGGCACAGGACCGG
CTGAAGGGCGGCGCGGCGGCGGAGCCGAGGGTCCCGAGCCAAGCCGGTCTGTAGTGACGATGACAGTGAGGAG
GAACAAGAGGAGGACCGCTCAGGAAGTGGCAGCGAAGAAGACTGAGCCCCGACATTCCAGTCTCGACCCCGAGCC
CCTCGTTCCAGAGCTGAGATGGCATAGGCCTTAGCAGTAACGGGTAGCAGCAGATGTAGTTTCAGACTTGGAGTA
AAACTGTATAAACAAGAATCTTCCATATTTATACAGCAGAGAAGCTGTAGGACTGTTTGTGACTGGCCCTGTC
CTGGCATCAGTAGCATCTGTAACAGCATTAACTGTCTTAAAGAGAGAGAGAGAATCCGAATTGGGGAACACA
CGATACCTGTTTTTCTTTTCGTTGCTGGCAGTACTGTTGCGCCGAGTTTGGAGTCACTGTAGTTAAGTGTGGA
TGCATGTGCGTCACCGTCCACTCCTCTACTGTATTTATTGGACAGGTGAGACTCGCCGGGGGGCGCGAGGG
TATGTCAGTGTCACTGGATGTCAAACAGTAATAAATTAAACCAACAACAAAACGCA

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FIGURE 735

MSTPDPLGGTTPRPGSPGPGSPGAMLGPSGPGSPGSAHSMMPSPGPPSAGHP IPTQGGGYPQDNMHQMHPK
MESMHEKGMSDDPYRNQMKMGMRSGGHAGMGPPSPMDQHSQGYPSPLGGSEHASSPVPASGPSSGPQMSSSGP
GAPLDGADPQALGQQNRGPTFFNQQLHQLRAQIMAYKMLARGQPLPDHLQMAVQGKRPMGPMQQQMP TLPPPSV
SATGPGPGPGPGPGPGPAPPNYSRPHGMGGPNMPPPGPSGVPPGMPGQPPGGPPKPWPEGPMANAAAPTSTPQ
KLIPPQPTGRPSAPPAPVPPAASPVMPPQTQSPGQPAQAPMVP LHQKQSRI TP IQKPRGLDVEILQEREYRLQ
ARIAHRIQELLENLPGLAGDLRTKATIELKALRLNFORQLRQEVVVCMRRTALETALNAKAYKRSKRQSLREA
RITEKLEKQQKIEQERKRRQKHQEYLN SILQHAKDFKEYHRSVTGKIQLTKAVATYHANTEREQKKENERIEKE
RMRRLMAEDEEGYRKLIDQKKDKRLAYLLQQTDEYVANLT ELVRQHKAQVAKEKKKKKKKKAENAEGQTPAIG
PDGEPLDETSQMSDLPVKVIHVESGKILTGT DAPKAGQLEAWLEMNPGYEVAPRSDSEESGSEEEEEEEEEEQPQ
AAQPPTLPVEEKKKIPDPDSDDVSEVDARHIIENAKQDVDD EYGVSQLARGLQSYAVAHAVTERV DKSALMV
NGVLKQYQIKGLEWLVS LYNNLNGLADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKW
APSVVKVSYKGSAPAARRAFVPQLRSGKFNVLLTTYEYIIKDKHILAKIRWKYMI VDEGHRMKNHHCKLTQVLNTH
YVAPRRLLLTGTPLQNKLP ELWALLNLLPTIFKSCSTFEQWFNAPFAMTGEKVDLNEEETILIIRRLHKVLRPF
LLRRLKKEVEAQLPEKVEYVIKCDMSALQRVLYRHMQAAGVLLTDGSEKDKKGKGGTKTLMNTIMQLRKICNHPY
MFQHIEESFSEHLGFTGGIVQGLDLYRASGKFELLDRI LPKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKYLR
LDGTTKAEDRGMLLKT FNEPGSEYFIFLLSTRAGGLG LNLQSADTVIIFDSDWNPHQDLQAQDRAHRI GQONEVR
VLRLCTVNSVEEKILAAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAILEHEEQDES RHCSTGSGSASFAHTA
PPPAGVNPDL EEPPLKEEDEVPDDET VNMIA RHEEEFDLFMRMDLDRREEARNPKRKPRLMEDELPSWIIKD
DAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAI EEGTLEEIEEEVRQKKS SRKRKRDSDAGSSTPT
TSTRSRDKDDESKKQKKRGRPPAEKLSPNPPNLTKMKKIVDAVIKYKDS SSGRQLSEVF IQLP SRKELPEYYEL
IRKPVDFKKIKERIRNHKYRSLNLEKDVMLLCQNAQT FNLEGLIYEDSIVLQSVFTSVRQKIEKEDDSEGEES
EEEEEGEEGSESESRSVKV KIKLGRKEKAQDR LKGGRRRPSRGSRAKPVVSDDDSEEQEEDRSGSGSEED

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FIGURE 736

ATGGCGCTTGCCAGCGTGTGGAGAGACCGCTACCGGTGAACCAGCGCGGGTTTTTCGGACTTGGGGGTCGTGCA
GATCTGCTGGATCTAGGTCCAGGGAGTCTCAGTGATGGTCTGAGCCTGGCCGCGCCAGGCTGGGGTGTCCCAGAA
GAGCCAGGAATCGAAATGCTTCATGGAACAACCACCCTGGCCTTCAAGTTCCGCCATGGAGTCATAGTTGCAGCT
GACTCCAGGGCTACAGCGGGTGCTTACATTGCCTCCCAGACGGTGAAGAAGGTGATAGAGATCAACCCATACCTG
CTAGGCACCATGGCTGGGGGCGCAGCGGATTGCAGCTTCTGGGAACGGCTGTTGGCTCGGCAATGTCGAATCTAT
GAGCTTCGAAATAAGGAACGCATCTCTGTAGCAGCTGCCTCCAAACTGCTTGCCAACATGGTGTATCAGTACAAA
GGCATGGGGCTGTCCATGGGCACCATGATCTGTGGCTGGGATAAGAGAGGCCCTGGCCTCTACTACGTGGACAGT
GAAGGGAACCGGATTTTCAGGGGCCACCTTCTCTGTAGGTTCTGGCTCTGTGTATGCATATGGGGTCATGGATCGG
GGCTATTCTATGACCTGGAAGTGGAGCAGGCCTATGATCTGGCCCGTCGAGCCATCTACCAAGCCACCTACAGA
GATGCCTACTCAGGAGGTGCAGTCAACCTCTACCACGTGCGGGAGGATGGCTGGATCCGAGTCTCCAGTGACAAT
GTGGCTGATCTACATGAGAAGTATAGTGGCTCTACCCCCTGA

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FIGURE 737

MALASVLERPLPVNQRGFFGLGGRADLLDLGPGSLSDGLSLAAPGWGVPEEPGIEMLHGTTTTLAFKFRHGVIVAA
DSRATAGAYIASQTVKKVIEINPYLLGT MAGGAADCSFWERLLARQCRIYELRNKERISVAAASKLLANMVYQYK
GMGLSMGTMICGWDKRGPGLYYVDSEGNRISGATFSVGSGSVYAYGVMDRGYSYDLEVEQAYDLARRAIYQATYR
DAYSGGAVNLYHVREDGWIRVSSDNVADLHEKYSGSTP

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FIGURE 738A

TGCTAAGTAACTTGTTTATTGTCAGACATCTAGTGAGTCGCAGAGCCAGGGAAGTACCACGGGCATTTTCACCC
CATTACCCTTCCAGCTTATTGCCGACTGCTCCCGAAGGGAGCGAAAAGGACAGGCAAAGGGTTTCACCAAACCTT
TTGTAATGGGAGATTCTTGCTTCTTACCTTTCTCACGTTTGCTTCTCTGCCAGAATGCTTCCCGCACTTTCC
CCAGAACCAAGTTCTCCTAATCATCTTTCAAGATCCCTTTCCCTCAACCACAGATGAGCCGTGCCTATTCTCC
TTCAAATGACTCCCTATGGCTTCTAGTTGGTAGICTTTTATTTACCACCTCATAGTCCTTTTATTTATATCCCAT
AAATGATCGTCCGGCCCCGCACCGTGGGACAGGACGCTGCCTCGACCATGGCGGTCTCCTGGAAACAGGCTGCT
TTGAGCCGAAACTGGTGACCGTTTCCCAACCCCGTCCAGGAGTCCGACGCCTCTTTTCTCCAGGCCAACTTCAAG
TGAGGTGTATCAACTCTATCCGCACAAATTTCTTGCCACGAGAGCAGAAGATTATGATCTCTGATGCTGCCTTAG
GGCTGAAGACACTCCCAACTCGGCGACGCTTAGCAATCATCGACTTCCTCCTCCTCTTGGCTGCCTCGGAGATCC
TGTTCCGGGGCAGAGGTCTCCCCGCCCCGCCCCCTCGTCTCCTCCAAGATGGCGAGCGGGCGGAGCGGGGGGGTGT
CAGTACCTGCGCTGTTGGAGTGAAGTGAACCGGTATGGCCAGAACGGCGACTTCACGCGCGCTCTCAAGACCGTCA
ATAAGATACTACAGATCAACAAAGATGACGTAAGTGCCTGCAATTGTAAAGTGGTATGCCTTATCCAGAATGGAA
GTTTCAAGGAAGCTTTGAATGTCATCAATACTCACACCAAAGTGTAGCCATAAATCTCTCTCCTTTGAAAAGG
CATATTGCGAGTACAGGCTGAACAGAATTGAGAATGCCTTGAAGACAATAGAAAAGTGCCAACCCAGCAGACAGACA
AACTGAAGGAGCTTTATGGACAAGTGTATACCGTTTGGAACGCTATGATGAATGCTTAGCAGTGTATAGAGATC
TCGTCCGAAACTCCCAAGATGATTATGATGAGGAGAGGAAAAACAACTTTTCAGCAGTTGTTGCAGCTCAAAGCA
ATTGGGAAAAAGTGGTTCCAGAGAACCTGGGCCTCCAAGAAGGCACACATGAGCTGTGCTACAACACTGCATGTG
CACTGATAGGCCAAGGCCAGCTGAACACAGGCCATGAAAATCCTACAAAAGCTGAAGATCTTTGCCGCCGTTTCAT
TATCAGAAGACACTGATGGGACTGAGGAAGACCCACAGGCAGAAGTGGCCATCATTGATGGTCAGATGGCTTATA
TTCTGCAGCTTCAGGGTCGAACAGAGGAGGCTTTGCACTTTACAATCAAATAATAAACTAAAAACACAGATG
TGGGATTACTAGCTGTAATTGCAAATAACATCATTACCATTAAACAAGGACCAAAATGTCTTTGACTCCAAGAAGA
AAGTGAAATTAACCAATGCGGAAGGAGTAGAGTTAAGCTTTCCAAGAAACAACATAAGCTATAGAATTTAACA
AAGCTTTACTTGCTATGTACACAAACAGGCTGAACAATGCCGCAAAATATCTGCCAGTTTACAGTCCCAAAGTC
CCGAGCATCTCTTACCTGTGTTAATCCAAGCTGCCAGCTCTGCCGTGAAAAGCAGCACACAAAAGCAATAGAGC
TGCTTCAGGAATTTTCAGATCAGCATCCAGAAAATGCAGCTGAAATTAAGCTGACCATGGCAGAGTTGAAAATTT
CTCAAGGTAATATTCTAAAGCATGTCTAATATTGAGAAGCATAGAGGAGTTAAAGCATAAACCAGGCATGGTAT
CTGCATTAGTTACCATGTATAGCCATGAAGAAGATATTGATAGTGCCATTGAGGTCTTCACACAAGCTATCCAGT
GGTATCAAAACCATCAGCCAAAATCTCCTGCTCATTGTCTTGATAAGAGAAGCTGCAAACCTCAAACCTCAAAT
ATGGGCGGAAGAAGGAGGCAATTAGTGACCTACAACAGCTGTGGAACAAAATCCAAAAGATATTACACCCCTGG
CACAGCTTATTTCTGCTTACTCACTTGTAGATCCAGAGAAAGCCAAAGCTCTTAGTAAACACTTGCCATCGTCAG
ATAGTATGTCTCTAAAAGTAGATGTTGAGGCTCTTGAAAATTTCTGCTGGTGCTACATACATTCCGAAGAAGGGTG
GAAAAGTTACTGGAGATAGTCAACCAAAGGAACAAGGACAGGGAGATTTGAAAAGAAGAAAAAGAAAAGAAGG
GAAAATTGCCATAAGAATTATGACCCAAAAGTTACCCAGATCCAGAAAGATGGCTGCCAATGCGAGAAGCTTTCT
ACTACCGGGGAAGAAAAGAAGGGTAAAAAGAAGGATCAGATTGGAAAAGGGACCCAGGGAGCAACTGCAGGAGCTT
CATCTGAAGTGGATGCCAGTAAACTGTGAGCAGCCACCCACCTCCCCAAGACCTGGCAGTGTGCAACAGTAT
CTGCCTCTACAAGTAACATCATACCCCCAAGACACCAGAAACCTGCAGGGGGCTCCAGCAACAAAAAGAAACAGC
AACAGAAAAAGAAGAAAGGTGGAAGGTTGGCTGGTATGAGAATATTCTTGTTGCAGGCTGTTTTTAAACTAGT
GTCAGTGACACTAGGAATATAATAAAGGTAACACAGCAAGAAGCACAGAACTACTCCCTCTTCATCTCCATATT
TCATAATTTCTTGTTTCAATAGGGAAACATCTTCTCAAAGTCTGCCTAGTGAGATATGGCTACTGGTTGC
CTCATAGCTTTGTACAGATTATGAGGACTGAAAATAATTGGGCATTTACCCATCTTGGTATCTGTTGTATCCTTT
ATCTGTGTGTGCTGATTTGATCTTTTTTTCAGTTTTCACATACCTTATCTAAGGTTTCCCAGGATTTAAACAGAAAC
TACTTCTATGATTTTCAGCTGGAGTCTGAAGATACTTGTCTTCTGTTCAAGTCCCACTTTAAATTATGTCTTAGGAG
ACTGAAAGTGGAATCTTCTGAGCATTCTTAAATATCTGCTTAGAAATATCATGTGATAAAGAGGGACCTTCTTAA
TACACTGATGTTCTTCACTAAATGGATGGCCACAAGAAAAATAAAGTAAATGTCTTAAATAATTTAACATAAAT
TTTCTGTCAITGTACTGGAATATGGGATACTTTTCATGTTTATATATATATATATATATATATATATATACGA
TATATATATATATATAAANTGAAATACGA
CATGCTGATACAGCACCATGAAAGAACTCAAGGAAAATATATCAATGTAAGAAGTTCACTCTTAGACCCAGTGT
CTGAGGTCACATGGGTTTGGACTGTCTCAATCAGAAAGATTAATGACTGTTATCAAGAACATGAACATTGGCTTC

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FIGURE 738B

CTCCATAGAGAAGAAATCAGTATCTGAGTTGCATACCAGGCAGTATTAAAATCTAACAGGTCTGTTGGCCCAT
GATAGATACTCAAATGGTGTCTCCTTCTGGTTATGGATTTTGACCATTGATTACCTTTCTCAATGTAATGAAGTA
TTTTACAGTCAATTTGTGGTGTAAATGTTGCTCTTGCTTTCCCTTGCTTACAACTACTTTACATTGAACAGCT
GTGAGACAGACATATTGAGATGCCTGCCCTTGTTAGTATTCAATTTATGCTGCCCAAGATATCATTAAATTTAGA
CTTAACAAGTATTTCCCTTGATATATTACTCTGTCCTTGTTAATAAAGTGCTGCTGTGTTGACTCTGAACAT
ACTACCAAACCTTCTTCAAAGAGTTTTTTATGAAAGACTTTCCCTCCTTTACAAGAAAGAAATGGGGTGCTGCCTT
TCTGTTTAGTAAAAGCAGAATTTGCAGTGGCATCTAAAGAGATCTTTTTTAAATAAAAATTATGTATTGTGGCAT
AATCCTTTTTTTGAGCTCTACAGAGAACAGTCTTTTGGTAATAGTGGCAGGTATTTATCCTTCTGAATATATAC
CCCATTATAGGAATAACTGTTACTTATTTAGGATTCCATCATTGAAAATTTTGACCCAAGGCACAGCAGTGAAAT
TTATAGTTCTCAATTTAGTTGTCATTATTGACAGGCATTGGTATTATTAGTCATTGCTAAGCAACTAAAACCTCA
TCAGTTCAAATAAGTTTTAATTGTCAAATGAAGTATAAACACATGAACCTTTCTAGAAATATTTCTCTTTTGGAT
AGGTCTTTAACCAGTTCATATATATACTTTGTCAAATATATGGATGTGTATGTGTACATTTATAAGAACCAGTAT
GGATACATCCATTCAGTGTGGTACATTTTAAATAAAAATATTTTAGCAGTGAATATGGAAA

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FIGURE 739

MIVRPRTVGPGRCLDHGGLLETGCFEPKLVTVSQPRPGVRRLFSPGQLQVRCINSIRTNFLPREQKIMISDAALG
LKTLPTRRLAIIDFLLLLAASEILFRGRGLPAPPLVSSKMASGGSGGVSPALWSEVNRYGQNGDFTRALKTVN
KILQINKDDVTALHCKVVCLIQNGSFKEALNVINTHTKVLANNLSFEKAYCEYRLNRIENALKTIESANQQTDK
LKELYGQVLYRLERYDECLAVYRDLVRNSQDDYDEERKTNLSAVVAAQSNWEKVVPENLGLQEGTHELCYNTACA
LIGQGQLNQAMKILQKAEDLCRRSLSEDTGTEEDPQAEIAIHGMAYILQLQGRTEEALQLYNQIIKCLKPTDV
GLLAVIANNIITINKDQNVFDSKKKVKLTAEGVEFKLSKKQLQAIEFNKALLAMYTNAEQCRKISASLQSQSP
EHLLPVLIQAAQLCREKQHTKAIELLQEFSDQHPENAAEIKLTMAQLKISQGNISKACLILRSIEELKHKPGMVS
ALVTMYSHEEDIDSAIEVFTQAIQWYQNHQPKSPAHLSLIREAANFKLKYGRKKEAISDLQQLWKQNPDKIHTLA
QLISAYSILVDPEKAKALSKHLPSSDSMSLKVDEALENSAGATYIRKKGGKVTGDSQPKEQGQDLKKKKKKKKG
KLPKNYDPKVTPDPERWLPMRERSYYRGRKKGKKKDQIGKGTQGATAGASSELDASKTVSSPPTSPRPGSAATVS
ASTSNIIPPRHQKPAGAPATKKKQKQKKKKGGKGGW

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FIGURE 740

CGGTGCCTGGTGCGGGAGCTACGGGGCCCAGGGATTGTGTTTAAAGTAGTGCTTCTACCAACATGTCCCGTGGTT
CCAGCGCCGGTTTTGACCGCCACATTACCATTTTTTACCAGGGTCGGCTCTACCAAGTAGAATATGCTTTTA
AGGCTATTAACCAGGGTGGCCTTACATCAGTAGCTGTGAGAGGAAAGACTGTGCAGTAATTGTCACACAGAAGA
AAGTACCTGACAAATTATTGGATTCCAGCACAGTGACTCACTTATTCAAGATAACTGAAAACATTGGTTGTGTGA
TGACCGGAATGACAGCTGACAGCAGATCCCAGGTACAGAGGGCACGCTATGAGGCAGCTAACTGGAAATACAAGT
ATGGCTATGAGATTCTGTGGACATGCTGTGTAAAAGAATTGCCGATATTTCTCAGGTCTACACACAGAATGCTG
AAATGAGGCCTCTTGGTTGTTGTATGATTTTAATTGGTATAGATGAAGAGCAAGGCCCTCAGGTATATAAGTGTG
ATCCTGCAGGTTACTACTGTGGGTTTAAAGCCACTGCAGCGGGAGTTAAACAACTGAGTCAACCAGCTTCCTTG
AAAAAAAAGTGAAGAAGAAATTTGATTGGACATTTGAACAGACAGTGGAACCTGCAATTACATGCCTGTCTACTG
TTCTATCAATTGATTTCAAACCTTCAGAAATAGAAGTTGGAGTAGTGACAGTTGAAAATCCTAAATTCAGGATTC
TTACAGAAGCAGAGATTGATGCTCACCTTGTGCTCTAGCAGAGAGAGACTAAACATTGTCGTTAGTTTACCAGA
TCCGTGATGCCACTTACCTGTGTGTTTGGTAACAACAAACATCATGGAGGTCCTGGATTGAAAAAGGAGC
CTCTCCCACTCCTCCTACCACGAAGTGGTTAGGACTCTATATAAATAAAAACAAGGCTTTTGGAAAAAAAAAA
AAAA

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FIGURE 741

MSRGSSAGFDRHITIFSPEGRLYQVEYAFKAINQGGLTSVAVRGKDCAVIVTQKKVPDKLLDSSTVTHLFKITEN
IGCVMTGMTADSRSQVQRARYEAANWKYKYGYEIPVDMLCKRIADISQVYTQNAEMRPLGCCMILIGIDEEQGPQ
VYKCDPAGYYCGFKATAAGVKQTESTSFLEKKVKKKFDWTFEQTVETAITCLSTVLSIDFKPSEIEVGVVTVENP
KFRILTEAEIDAHLVALAERD

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FIGURE 742

TCTCTTGATTCCCTAGTCTCTCGATATGGCACCTCCGTCAGTCTTTGCCGAGGTTCCGCAGGCCAGCCTGTCCTG
GTCTTCAAGCTCACTGCCGACTTCAGGGAGGATCCGGACCCCGCAAGGTCAACCTGGGAGTGGGAGCATATCGC
ACGGATGACTGCCATCCCTGGGTTTTGCCAGTAGTGAAGAAAGTGGAGCAGAAGATTGCTAATGACAATAGCCTA
AATCACGAGTATCTGCCAATCCTGGGCCTGGCTGAGTTCCGGAGCTGTGCTTCTCGTCTTGCCCTTGGGGATGAC
AGCCAGCACTCAAGGAGAAGCGGGTAGGAGGTGTGCAATCTTTGGGGGGAACAGGTGCACTTCGAATTGGAGCT
GATTTCCTTAGCGCGTTGGTACAATGGAACAAACAAGAACACACCTGTCTATGTGTCTCACCACCTGGGAG
AATCACAATGCTGTGTTTTCCGCTGCTGGTTTTAAAGACATTCCGGTCTATCGCTACTGGGATGCAGAGAAGAGA
GGATTGGACCTCCAGGGCTTCCTGAATGATCTGGAGAATGCTCCTGAGTTCTCCATTGTTGTCTCCACGCTGT
GCACACAACCCAACCTGGGATTGACCCAACCTCCGGAGCAGTGGAAGCAGATTGCTTCTGTCATGAAGCACC GGTTT
CTGTTCCCTTCTTTGACTCAGCCTATCAGGGCTTCGCATCTGGAAACCTGGAGAGAGATGCCTGGGCCATTTCGC
TATTTTGTGCTCTGAAGGCTTCGAGTTCTTCTGTGCCAGTCTTCTCCAAGAACTTCGGGCTCTACAATGAGAGA
GTCGGGAATCTGACTGTGGTTGGAAGAAGCTGAGAGCATCTGCAAGTCCTTTCCAGATGGAGAAGATCGTG
CGGATTACTTGGTCCAATCCCCCGCCAGGGAGCACGAATTGTGGCCAGCACCTCTCTAACCCTGAGCTCTTT
GAGGAATGGACAGGTAATGTGAAGACAATGGCTGACCGGATTCTGACCATGAGATCTGAACTCAGGGCACGACTA
GAAGCCCTCAAAACCCCTGGGACCTGGAACCACATCACTGATCAAATTGGCATGTTAGCTTCACTGGGTTGAAC
CCCAAGCAGGTTGAGTATCTGGTCAATGAAAAGCACATCTACCTGCTGCCAAGTGGTCGAATCAACGTGAGTGGC
TTAACCACCAAAAATCTAGATTACGTGGCCACCTCCATCCATGAAGCAGTCACCAAAATCCAGTGAAGAAACACC
ACCCGTCCAGTACCACCAAGTAGTTCTCTGTCTGTGTGTTCCCTGCCTGCACAAACCTACATGTACATACCAT
GGATTAGAGACACTTGCAGGACTGAAAGCTGCTCTGGTGAGGCAGCCTCTGTTTAAACCGGCCCCACATGAAGAG
AACATCCCTTGAGACGAATTTGGAGACTGGGATTAGAGCCTTTGGAGGTCAAAGCAAATTAAGATTTTTATTAA
GAATAAAAGAGTACTTTGATCATGAGACATAGGTATCTTGTCCCTCTCACTAAAAAGGAGTGTGTGTGTGGCGG
CCACGTGCTTCTATGTGGTGTGTTGACTCTGTACAAATTCTAGTCCCAAAGATCAAGTTGTCTGAAGGAGCCAAAG
TGTGAATGTGGGTGTGCGCTGCGGCATTAAATTCATCATCTCAACCCAGAGTGTCTGGTCTCCCTGCTCTTTCTG
CATGGTTGTGTCCTAGTCTAAGCTTTGGTCTTTAGGGTGACTGTGGTAAGAAGGATATTTAATCATGACATG
CACGGACACGTACATATTTAACTGAAACAAGTTTTACCAACAGTATTTACTCGTGATGTGCGTAGTGCATTCTG
ATATTTTTGAGCCATTCTATTGTGTTCTACTTCACCTAAAAAATAAAATAAAATGTTGATCAAG

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FIGURE 743

MAPPSVFAEVPQAQPVLVFKLTADFREDPDPRKVN LGVGAYRTDDCHPWVLPVVKKVEQKIANDNSLNHEYLPIL
GLAEFRSCASRLALGDDSPALKEKRVGGVQSLGGTGALRIGADFLARWYNGTNNKNTPVYVSSPTWENHNAVFSA
AGFKDIRSYRYWDAEKRGDLQGFLNDLENAPEFSIVVLHACAHNPTGIDPTPEQWKQIASVMKHRFLFPFFDSA
YQGFASGNLERDAWAIRYFVSEGFEFFCAQSFSKNFGLYNERVGNLTVVGKEPESILQVLSQMEKIVRITWSNPP
AQGARIVASTLSNPELFEEWTGNVKT MADRILTMRSELRARLEALKTPGTWNHITDQIGMFSFTGLNPKQVEYLV
NEKHIYLLPSGRINVSGLTTKNLDYVATSIHEAVTKIQ

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FIGURE 744

GCACGAGCTGCGGCTCCGCTCTCGTCGCAACGAGATCTTTTCGAGATCTTCTCCGCCCCGCTACCGGCGCCTCCT
CTGCGGCCACTGAGCCGGAGCCGGCCTGAGCAGCGCTCTCGGTTGCAGTACCCACTGGAAGGACTTAGGCGCTCG
CGTGGACACCGCAAGCCCCCTCAGTAGCCTCGGCCAAGAGGCCTGCTTTCCACTCGCTAGCCCCGCCGGGTCCG
TGTCCTGTCTCGGTGGCCGGACCCGGGCCCCGAGCCCGAGCAGTAGCCGGCGCCATGTCGGTGGTGGGCATAGACC
TGGGCTTCCAGAGCTGCTACGTCGCTGTGGCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAGCGACC
GCTGCACGCCGGCTTGCAATTTCTTTGGTCCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGTAATTT
CTAATGCAAAGAACACAGTCCAAGGATTTAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGAGGCAG
AAAAATCTAACCTTGCAATATGATATTGTGCAGTTGCCTACAGGATTAACAGGTATAAAGGTGACATATATGGAGG
AAGAGCGAAATTTTACCACTGAGCAAGTGAAGTCCATGCTTTTGTCCAACTGAAGGAGACAGCCGAAAGTGTTT
TTAAGAAGCCTGTAGTTGACTGTGTGTTTCGGTTCCTTGTTCTATACTGATGCAGAAAGACGATCAGTGATGG
ATGCAACACAGATTGCTGGTCTTAATTGCTTGGCATTAAATGAATGAAACCACTGCAGTTGCTCTTGCAATATGGAA
TCTATAAGCAGGATCTTCTGCTTAGAAGAGAAACCAAGAAATGAGTTTTTGTAGACATGGGCCACTCTGCTT
ATCAAGTTTCTGTATGTGCATTTAATAGAGGAAACTGAAAGTTCTGGCCACTGCATTTGACACGACATTGGGAG
GTAGAAAATCGTGAAGTGTAAATCACTTCTGTGAAGAATTGGGAAGAAATACAAGCTAGACATTAAAGT
CCAAAATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAATGCTTCAG
ATCTCCCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGATCTGGAACATATGAATAGAGGCAATTTCTGG
AGATGTGCAATGATCTCTTAGCTAGAGTGGAGCCACCCTTCGTAAGTTTTTGGAAACAAACCAAGTTAAAGAAAG
AAGATATTTATGCAAGTGGAGATAGTTGGTGGTGTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAATTTT
TCGGTAAAGAACTTAGTACAACATTAAATGCTGATGAAGCTGTCACTCGAGGCTGTGCATTGCAGTGTGCCATCT
TATCCGCTGCTTTCAAAGTCAGAGAATTTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATGGAATT
CTCCAGCTGAAGAAGGTCAGTGAAGTCTTTTCCAAAATCATGCTGCTCTTTCTCTAAAGTTCTTA
CATTTTATAGAAAGGAACCTTTTCACTCTTGAGGCCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGATCCTG
CTATAGCTCAGTTTTTCACTTCAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAAGTGAAAGTCAAAGTTC
GAGTAAATGTCCATGGCATTTTTCACTGTGTCCAGTGCATCTTTAGTGGAGGTTTCAAGTCTGAGGAAAATGAGG
AGCCAATGGAAACAGATCAGAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACCACATGTTGAAG
AGCAACAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATCCAAGG
ATAAAAAGATGGACCAACCAACCCCAAGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAATCGAGA
ATCAGCTATTATGGCAGATAGACAGAGAGATGCTCACTTGTACATTGAAAATGAGGGTAAGATGATCATGCAGG
ATAAACTGGAGAAGGAGCGGAATGATGCTAAGAACGCAGTGAAGGAATATGTGTATGAAATGAGAGACAAGCTTA
GTGGTGAATATGAGAAGTTGTGAGTGAAGATGGTCTGAACAGTTTTACTTTGAAACTGGAAGATACTGAAAATT
GGTTGTATGAGGATGGAGAAGACCAGCCAAAGCAAGTTTATGTTGATAAGTTGGCTGAATTAATAAATCTAGGTC
AACCTATTAAGATACGTTTCCAGGAATCTGAAGAACGACCAAAATTTTGAAGAAGTGGGAAACAGATCCAAC
AGTATATGAAAATAATCAGCTCTTTCAAAAACAAGGAGGACCAGTATGATCATTGGATGCTGCTGACATGACAA
AGGTAGAAAAAAGCACAAATGAAGCAATGGAGTGGATGAATAACAAGCTAAATCTGCAGAACAGCAGAGTTTGA
CCATGGATCCAGTTGTCAAGTCAAAAGAGATTGAAGCTAAATTAAGGAGCTGACAAGTACTTGTAGCCCTATAA
TTTCAAAGCCCCAAACCAAGTGAACCTCCAAAAGAGGAACAAAAAATGCAGAGCAGAAATGGACCAGTGGATG
GACAAGGAGACAACCCAGGCCCCAGGCTGCTGAGCAGGGTACAGACACAGCTGTGCCTTCGGATTTCAGACAAGA
AGCTTCCTGAAATGGACATTGATTGATTCCAACACTTGTTCATTATAAACAGACTATTATAAA

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FIGURE 745

MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAKSQVISNAKNTVQGFKRFGRAF
SDPFVEAEKSNLAYDIVQLPTGLTGIKVTYMEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPFCFYTD
AERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPALEEKPRNVVFVDMGHSAYQVSVCAFNRGKLVLAT
AFDTTLGGRKFDEVLVNHFCEEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDPLSLIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPAFAKREFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLPYDPPIAQFSVQKVTPQSDGSSSKVKVVRVNVHGIFSVSSASLVEVHKSEENEEPMTDQNAKEEEKMQVD
QEEPHVEEQQQTPAENKAEESEMETSQAGSKDKKMDQPPQAKKAKVKTSTVDLP IENQLLWQIDREMLNLYIEN
EGKMIMQDKLEKERNDKNAVREYVYEMRDKLSGEYEKFFVSEDGRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQESEERPKLFEEELGKQIQQYMKIISFKNKEDQYDHLDAADMTKVEKSTNEAMEWMNNKLN
LQNKQSLTMDPVVKSKEIEAKIKELTSTCSP IISKPKPKVEPPKKEEQKNAEQNGPVDGQGDNP GPQAAEQGTDTA
VPSDSDKKLPEMDID

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FIGURE 746

GCCTTTTTTGCAGTCTCAGGACGGGCGCTTTGGAGCCGGCCCCAGGCAGCGTGTGTCGGTCGCCTAGTCTGGAGA
ACTAGTCCTCGACTCACGGTGAGGGAATGGACCGACACGGGTATTGTACCGCTGAGGGAAAGGAGCGGGACTCCG
GACCTCCAGGAGTGCAAGGATGATGCTGAAAGGAATAACAAGGCTTATCTCTAGGATCCATAAGTTGGACCCCTGG
GCGTTTTTTACACATGGGGACCCAGGCTCGCCAAAGCATTGCTGCTCACCTAGATAACCAGGTTCCAGTTGAGAG
TCCGAGAGCTATTTCCCGACCAATGAGAATGACCCGGCCAAGCATGGGGATCAGCACGAGGGTCAGCACTACAA
CATCTCCCCCAGGATTTGGAGACTGTATTTCCCATGGCCTTCCTCCTCGCTTTGTGATGCAGGTGAAGACATT
CAGTGAAGCTTGCTGATGGTAAGGAAACCAGCCCTAGAACTTCTGCATTACCTGAAAAACACCAGTTTTGCTTA
TCCAGCTATACGATATCTTCTGTATGGAGAGAAGGGAACAGGAAAAACCCTAAGTCTTTGCCATGTTATTCACTT
CTGTGCAAAACAGGACTGGCTGATACTACATATTCCAGATGCTCATCTTTGGGTGAAAAATTGTCGGGATCTTCT
GCAGTCCAGCTACAACAAACAGCGCTTTGATCAACCTTTAGAGGCTTCAACCTGGCTGAAGAATTTCAAACTAC
AAATGAGCGCTTCCTGAACCAGATAAAAGTTCAAGAGAAGTATGTCTGGAATAAGAGAGAAAAGCACTGAGAAAGG
GAGTCCTCTGGGAGAAGTGTTGAACAGGGCATAACACGGGTGAGGAACGCCACAGATGCAGTTGGAATTGTGCT
GAAAGAGCTAAAGAGGCAAAGTTCTTTGGGTATGTTTACCTCCTAGTGGCCGTGGATGGAATCAATGCTCTTTG
GGGAAGAACCCTCTGAAAAGAGAAGATAAAAAGCCCGATTGCCCCGAGGAATTAGCACTTGTTACAACTTGAG
GAAAATGATGAAAAATGATTGGCATGGAGGCGCCATTGTGTCGGCTTTGAGCCAGACTGGGTCTCTCTTTAAGCC
CCGAAAGCCTATCTGCCCCAGGAGTTGCTGGGAAAGGAAGGATTTGATGCCCTGGATCCCTTTATTCCCATCCT
GGTTTCCAATAATAACCCAAAGGAATTTGAAAGTTGTATTCACTATTATTGGGAAAACAATTGGCTTCAACATGA
GAAAGCTCCTACAGAAGAAGGAAAAAAGAGCTGCTGTTCCCTAAGTAACGCGAACCCTCGCTGCTGGAGCGGCA
CTGTGCCTACCTCTAAGCCAAGATCACAGCATGTGAGGAAGACAGTGGACATCTGCTTTATGCTGGACCCAGTAA
GATGAGGAAGTCGGGCAGTACACAGGAAGAGGAGCCAGGCCCTGTACCTATGGGATTGGACAGGACTGCAGTTG
GCTCTGGACCTGCATTAAATGGGTTTCACTGTGAATGCGTGACAATAAGATATTCCCTTGTTCTTAAACTTTA
TATCAGTTTATTGGATGTGGTTTTTCACATTTAAGATAATTATGGCTCTTTTCTAAAAAATAAAATATCTTTCT

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FIGURE 747

MMLKGITRLISRIHKLDPGRFLHMGTOARQSIAAHLNQVPVESPRASRTNENDPAKHGDQHEGQHYNISPQDL
ETVFPHGLPPRFVMQVKTFSEACLMVRKPALELLHYLKNTSFAYPAIRYLLYGEKGTGKTLCHVIHFCAKQDW
LILHIPDAHLWVKNCRDLLQSSYNKQRFQPLEASTWLKNFKTTNERFLNQIKVQEKYVWNKRESTEKGSPLGEV
VEQGITRVRNATDAVGIVLKEKLRQSSLGMFHLLVAVDGINALWGRITTLKREDKSPIAPEELALVHNLKMMKND
WHGGAIVSALSQTGSLFKPRKAYLPQELLGKEGFDALDPFIPILVSNNPKFESCIQYYLENNWLQHEKAPTEE
GKKELLFLSNANPSLLERHCAYL

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FIGURE 748

ATGACGAAGAACGAGAAGAAGTCCCTCAACCAGAGCCTGGCCGAGTGGAAGCTCTTCATCTACAACCCGACCACC
GGAGAATTCCTGGGGCGCACCGCCAAGAGCTGGGGTTTGATCTTGCTCTTCTACCTAGTTTTTTATGGGTTCCTG
GCTGCACTCTTCTCATTACGATGTGGGTTATGCTTCAGACTCTCAACGATGAGGTTC AAAATACCGTGACCAG
ATTCTAGCCCAGGACTCATGGTTTTTCCAAAACAGTGACCGCATTGGAATATACATTAGTAGGTCTGATCCA
ACTTCGTATGCAGGGTACATTGAAGACCTTAAGAAGTTTCTAAAACCATATACTTTAGAAGAACAGAAGAACCTC
ACAGTCTGTCCTGATGGAGCACTTTTTGAACAGAAGGGTCCAGTTTATGTTGCATGTCAGTTTCCTATTTTCTTA
CTTCAAGCATGCAGTGGTATGAATGATCCTGATTTTGGCTATTCTCAAGGAAACCTTGTATTCTTGTGAAAATG
AACAGAATAATTGGATTAAAGCCTGAAGGAGTGCCAAGGATAGATTGTGTTTCAAAGAATGAAGATATACCAAAT
GTAGCAGTTTATCCTCATAATGGAATGATAGACTTAAAATATTTCCCATATTATGGGAAAAAACTGCATGTTGGG
TATCTACAGCCATTGGTTGCTGTTTCAGGTGAGCTTGTCTCTAACAACACITGGGAAAGAAGTAACAGTTGAGTGC
AAGATTGATGGATCAGCCAACCTAAAAAGTCAGGATGATCGTGACAAGTTTTTGGGACGAGTTATGTTCAAAATC
ACAGCACGTGCATTAGTATGAGTAGGATATCTCCACAGAGTAAATGTTGTGTTGTCTGTCTTCATTTTGTAAACAGC
TGGACCTTCCATTCTAGAAATTATGAGACCACCTTGGAGAAAGGTGTGTGGTACATGACATTGGGTTACATCATAA
CGTGCTTCCAGATCATAGTGTTCAGTGTCTCTGAAGTAACTGCCTGTTGCCTCTGCTGCCCTTTGAACCAAGTGT
ACAGTCGCCAGATAGGGACCGGTGAACACCTGATTCCAAACATGTAGGATGGGGGTCTTGTCTCTTTTTATGTG
GTTTAATTGCCAAGTGCTCTAAAGCTTAATATGCCGTGCTATGTAAATATTTTATGGATATAACAACCTGTCATATT
TTGATGTCAACAGAGTTTTAGGGATAAAATGGTACCCGGCCAACATCAAGTGACTTTATAGCTGCAAGAAATGTG
GTATGTGAGAAAGTTCTGTATGTGAGGAAGGAAAAAAGAAAAATAAAAGTGTGTTTAAAAATATTATCTTGGGT
TCTTTGTAAATTTATTTTTTACATGCTGAATTAGCCTCGATCTTTTGTATTAAGAGCACAACTTTTTTTGTGTA
AAACATGTAAAAAATAAACTGGGATTAATTTTTAGTGTGGAAGTGCCTCTTATTTTAGGCTGTAGATAAAATA
GCATTTTATAGTTAGCCAGTGACTATGCACCTAATTTTTATGAGATTAAATTCATAAGACTTAATTTGTACA
ATAGTTTGTGAAATATCTTGTTACTGCTTTTATTTAGCAGACTGTGGACTGTAATAAAGTATATAAATTGTGAAA
TATAAAAACTTGGAACCTATTCAAAGCTT

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FIGURE 749

MTKNEKKSLNQSLAEWKLFYINPTTGEFLGRTAKSWGILLLFYLVFYGFLLAALFSFTMWVMLQTLNDEVPKYRDQ
IPSPGLMVFPKPVTALEYTFSRSDPTSYAGYIEDLKKFLKPYTLEEQKNLTVC PDGALFEQKGPVYVACQFPISL
LQACSGMNDPDFGYSQGNPCILVKMNRIIGLKPEGVPRIDCVSKNEDIPNVAVYPHNGMIDLKYFPYYGKKLHVG
YLQPLVAVQVSFAPNNTGKEVTVECKIDGSANLKSQDDRDKFLGRVMFKITARA

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FIGURE 750

GAATTCGCTTTGGATCCATTTCCATCGGTCCTTACAGCCGCTCGTCAGACTCCAGCAGCCAAGATGGTGAAGCAG
ATCGAGAGCAAGACTGCTTTTCAGGAAGCCTTGGACGCTGCAGGTGATAAACTTGTAGTAGTTGACTTCTCAGCC
ACGTGGTGTGGGCCCTTGCAAATGATCAACCCCTTCTTTCATTCCCTCTCTGAAAAGTATTCCAACGTGATATTC
CTTGAAGTAGATGTGGATGACTGTCAGGATGTTGCTTCAGAGTGTGAAGTCAAATGCACGCCAACATTCCAGTTT
TTTAAGAAGGGACAAAAGGTGGGTGAATTTCTGGAGCCAATAAGGAAAAGCTTGAAGCCACCATTAAATGAATTA
GTC**TAA**TATGTTTTCTGAAAACATAACCAGCCATTGGCTATTTAACTTGTATTTTTTTATTACAAAATATAA
ATATGAAGACATAACCAGTTGCCATCTGCGTGACAATAAACATTATGCTAA

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FIGURE 751

MVKQIESKTAFQEALDAAGDKLVVVD¹FSATWCGPCKMINPFFHSLSEKYSNVIFLEVDVDDCQDVASECEVKCTP
TFQFFKKGQKVGEFSGANKEKLEATINELV

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FIGURE 752

GGGGAGAGAGTGGGGACGTCCGGCTTCGGAGCGGGAGTGTTTCGTTGTGCCAGCGACTAAAAAGAGAATTAAATAT
GGGTGATGTTGAGAAAGGCAAGAAGATTTTTATTATGAAGTGTTCCCAGTACCACACCGTTGAAAAGGGAGGCAA
GCACAAGACTGGGCCAAATCTCCATGGTCTCTTTGGGCGGAAGACAGGTCAGGCCCTGGATACTCTTACACAGC
CGCCAATAAGAACAAGGCATCATCTGGGGAGAGGATACACTGATGGAGTATTTGGAGAATCCCAAGAAGTACAT
CCCTGGAACAAAAATGATCTTTGTTCGGCATTAAAGAAGAAGGAAGAAAGGGCAGACTTAATAGCTTATCTCAAAAA
AGCTACTAATGAGTAAATAATTGGCCACTGCCTTATTTATTACAAAACAGAAATGTCTCATGACTTTTTTATGTGT
ACCATCCTTTAATAGATCTCATAACCCAGAATTCAGATCATGAATGACTGACAGAATATTTGTGGGCAGTCCT
GATTTAAACTAAGACTGGCTTGTTGTTAAATGAATATGTTTCAGTTTTTGAATTTTAAAGTAACTCCAATTCAG
TAAATGGTATCACTGTTTACCCCTTTTAAAGATATGATTAGACTTCGTTAGTAATGTTCAACTTTTCACAAAGAT
GGTGAGTGCCATCTTAAAACTTACTGGAGATTGGTTTTATATTTAGATTTATATAACTGGTTATGTGAATATATT
TAAATACTGGGAAATTGCTTCACTGTCTTAGAACCAAGCAAGATTCACCTGTGTTTTGTGTTCAATGTTTCATTTG
CCTCTTAAAGGCAAGGGTTGAAGATAAATAAGGTAGCAATGTCTATAGTTTTGGCCTTAACTATGCCAATCTAAT
TATAATTCCTGTATTTAAATGGTTTCTTTTACTTATTGAAAGGCATTTAGTGTGGTTTATGTGTAATATTAA
AGATTATTCAACACCCCAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 753

MGDVEKGKKIFIMKCSQYHTVEKGGKHKTGPNLHGLFGRKTGQAPGYSYTAANKNKGI IWGEDTLMEYLENPKKY
IPGTKMIFVGIKKKEERADLIAYLK KATNE

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FIGURE 754

CCGGCGGGCGCTCAGGTCGCGGGGGCGCCTAGGCCTGGGTTGTCCTTTGCATCTGCACGTGTTTCGCAGTCGTTTCC
GCGATGCTGCTCTGCTGCGCTGCGTGCCCCGTGTGCTGGGCTCCTCCGTCGCCGGCCCTCCGCGCTGCCGCGCCC
GCCTCGCCTTTCCGGCAGCTCCTGCAGCCGGCACCCCGGCTGTGCACCCGGCCCTTCGGGCTGCTCAGCGTGCGC
GCAGGTTCCGAGCGGGCGGGCCCTCCTGCGGCCTCGCGGACCCTGCGCCTGTGGCTGTGGCTGCGGCTCGCTG
CACACCGACGGAGACAAAGCTTTTGTGATTTCTTGAGTGATGAAATTAAGGAGGAAAGAAAAATTCAGAAGCAT
AAAACCTCCCTAAGATGTCTGGAGGTTGGGAGCTGGAAGTGAATGGGACAGAAGCGAAATTAGTGCAGGAAAGTT
GCCGGGGAAAAATCACGGTCACCTTTCAACATTAAACAACAGCATCCACCAACATTTGATGGTGAGGAGGAACCC
TCGCAAGGGCAGAAGGTTGAAGAACAGGAGCCTGAACTGACATCAACTCCCAATTTTCGTGGTTGAAGTTATAAAG
AATGATGATGGCAAGAAGGCCCTTGTGTTGGACTGTCATTATCCAGAGGATGAGGTTGGACAAGAAGACGAGGCT
GAGAGTGACATCTTCTCTATCAGGGAAGTTAGCTTTCAGTCCACTGGCGAGTCTGAATGGAAGGATACTAATTAT
ACACTCAACACAGATTCTTGGACTGGGCCTTATATGACCACCTAATGGATTTCTTGCCGACCGAGGGGTGGAC
AACACTTTTGCAGATGAGCTGGTGGAGCTCAGCACAGCCCTGGAGCACCAGGAGTACATTACTTTTCTTGAAGAC
CTCAAGAGTTTTGTCAAGAGCCAGTAGAGCAGACAGATGCTGAAAGCCATAGTTTCATGGCAGGCTTTGGCCAGT
GAACAAATCCTACTCTGAAGCTAGACATGTGCTTTGAAATGATTATCATCTAATATCATGGGGAAAAAATACC
AAATTTAAATTATATGTTTTGTGTTCTCATTATTATTATCATTTTTTCTGTACAAATCTATTATTTCTAGATTTTT
GTATAACATGATAGACATAAAATTGGTTTATCTCCTCCGCTGAGTCTTCTAGAAGTACCTGCTGGGTTCTCAGT
TCCAGTTCCCATCCTTTGATTGATCACTCTCCCTGACATCCACCTGTATGACTTTGTCACCAATGCTGTCTTCT
CTTCTCCAATCAAGAAATAATAATCCCTCGAGTTACAAAACAAAAAAAAAAAAA

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FIGURE 755

MLPLLRCVPRVLGSSVAGLRAAAPASPFRLQAPRLCTRPFGLLSVRAGSERRPGLLRPRGPCACGCGCSLH
TDGDKAFVDFLSDEIKEERKIQKHKTLPKMSGGWELELNGTEAKLVRKVAGEKITVTFNINNSIPPTFDGEEEPS
QGQKVEEQEPELTSTPNFVVEVIKNDGKKALVLDCHYPEDEVGQEDAESESDIFSIREVSFQSTGESEWKDTNYT
LNTDSLWDALYDHLMDFLADRGVDNTFADELVELSTALEHQEYITFLEDLKSFVKSQ

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FIGURE 756

TGGACTTGGATCCGAGGCAGACGAGGAAGCTGAGAAAAACCTGGCGTTGACCCCGTGGACCTGGGCGCCCCGGGA
AGGTCCAGCGCTTGGTCCAGGCAGGCGGGGATGTGCGGTGACCACCTGGTCCTGAAAAGTCCAGCCCCGAATCT
CCCTCCCTCCTAGACCTGGAGGCCTGGAACAGCCAGCCGCCACGGACGCCAGAGCCGGGAACCTGACGGCACT
TAGCTGCTGACAAACAACCTGCTCCGTGGACGCCTGAAACACCAGTCTTTGGGGCCAGTGCCTCAGTTTCAATCC
AGGTAACTTTTAAATGAAACTTGCCTAAAAATCTTAGGTACATACAGAAAGAGACTCCAATCGACAAGAAGCTGGA
AAAGAATGATGTTGTCTTAAACAACCTACAGAATATCATCTATAACCCGGTAATCCCGTATGTTGGCACCATT
CCGATCAGCTGGATCCTGGAACCTTGATTGTGATATGTTGGCATGTTCTTAGTGACGCAGACAGATTCCAGGTGG
ATCTGCAGAATGGCAGCAGTGTGAAACCTCGAGCCGATGTGGCCTTTCAATTCCTCGTTTCAAAAGGGCCG
GCTGCATTGTTTGCAATACTTTGATAAATGAAAAATGGGGACGGGAAGAGATCACCTATGACACGCCTTTCAAAA
GAGAAAAGTCTTTTGAGATCGTGATTATGGTGCTAAAGGACAAATCCAGGTGGCTGTAAATGGAAAACATACTC
TGCTCTATGGCCACAGGATCGGCCAGAGAAAATAGACACTCTGGGCATTATGGCAAAGTGAATATTCACTCAA
TTGGTTTTAGCTTCAGCTCGGACTTACAAAGTACCAAGCATCTAGTCTGGAAGTACAGAGATAAGTAGAGAAA
ATGTTCCAAAGTCTGGCAGCCCCAGCTTCAGACTGTCTCTCCCTCCTGGGATTTACAGGGTCATGGCTCTGAAA
CATTCTGTAGTGTCTTTGGACACGAGTTTTCTGGAGATCGCTTTCTGCAGGCCTATTGGTCTGACTGTGGCTT
CTTTTCAGAGCCTGCCATTGCTGCAAGGTTGAACACCCCCATGGGCCCTGGACGAAGTGTGCTCGTTAAAGGAG
AAGTGAATGCAAATGCCAAAAGCTTTAATGTTGACCTACTAGCAGGAAAATCAAAGGATATTGCTCTACACTGA
ACCCACGCCTGAATATTAAAGCATTTGTAAGAAATCTTTCTTCAGGAGTCTGGGGAGAGAAGAGAGAAATA
TTACCTCTTTCCATTTAGTCTGGGATGTACTTTGAGATGATAATTTACTGTGATGTTAGAGAATTCAGGTTG
CAGTAAATGGCGTACACAGCCTGGAGTACAAACACAGATTTAAAGAGCTCAGCAGTATTGACACGCTGGAAATTA
ATGGAGACATCCACTTACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGCTACAAAACCAAATACAGA
ATGGCTTCTGTGATACTGGCCTTGCTGAAACGCATCTCACTGTCATTCTATTGTTTATATTGTTAAATGAGCTT
GTGCACCATTAGATCCTGCTGGGTGTTCTCAGTCCTTGCCATGAAGTATGGTGGTGTCTAGCACTGAATGGGGAA
ACTGGGGGCAGCAACACTTATAGCCAGTTAAAGCCACTCTGCCCTCTCTCCTACTTTGGCTGACTCTTCAAGAA
GCCATTCAACAAGTATTTATGGAGTACCTACTATAATACAGTAGCTAACATGTATTGAGCACAGATTTTTTTTGG
TAAACTGTGAGGAGCTAGGATATATACTTGGTGAAACAAACCAGTATGTTCCCTGTTCTCTTGAGCTTCGACTC
TTCTGTGCTCTATTGCTGCGCACTGCTTTTTCTACAGGCATTACATCAACTCCTAAGGGGTCTCTGGGATTAGT
TAAGCAGCTATTAAATCACCCGAAGACACTAATTTACAGAAGACACAACCTCCTTCCCCAGTGATCACTGTCATAA
CCAGTGCTCTACCGTATCCCATCACTGAGGACTGATGTTGACTGACATCAATTTATCGTAATAACATGTGGCTC
TATTAGCTGCAAGCTTTACCAAGTAATTGGCATGACATCTGAGCACAGAAATTAAGGCAAAAAACCAAAGCAAAA
CAAATACATGGTGCTGAAATTAACCTTGATGCCAAGCCCAAGGCAGCTGATTTCTGTGTATTGAACTTAGGGCAA
ATCAGAGTCTACACAGACGCCTACAGAAAGTTTCAGGAAGAGGCAAGATGCATTCAATTTGAAAGATATTTATGG
GCAACAAAGTAAGGTGAGGATTAGACTTCAGGCATTATAAGGCAGGCACTATCAGAAAGTGTACGCCAACTAAG
GGACCCACAAAGCAGGCAGAGGTAATGCAGAAATCTGTTTTGTTCCTCATGAAATCACCATCAAGGCCTCCGTTT
TTCTAAAGATTAGTCCATCATCATTAGCAACTGAGATCAAAGCACTCTTCCACTTTACGTGATTAAATCAAACC
TGATACAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 757

MLSLNNLQNI IYNPVI PYVG TIPDQLDPGTLIVICGHVPSDADR FQVDLQNGSSVKPRADVAFHFNPFRK RAGCI
VCNTLINEK WGREEI TYDTPFKREKSFEIVIMVLKDKFQVAVNGKHTLLYGHRIGPEKIDTLGIYGVNIHSIGF
SFSSDLQSTQASSLELTEISRENVPKSGTPQLQTVSPSWDLQGHGSETFCSVLWTRVFLEIAFCRP IGLTVASFQ
SLPFAARLNTPMGPGRITVVVKGEVNANAKSFNVDLLAGKSKDIALHLNPRLNIAFVRNSFLQESWGEEERNITS
FPFSPGMYFEMI IYCDVREFK VAVNGVHSLEYKHRFKE LSSIDTLEINGDIHLLEVR SW

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FIGURE 758

GGCGGCGGCCGGCTCCCGCAGGCGCGGAGGCAGGCGAGCCCCGGCCCCAGGCGCCCGGGCCCCGCGCGCCCG
CGCGCGGCGCGGCATTTTATTAGGCGACGCTTAAGGGAGCCGGCCGCGCCCGGTGCATTGTGGGAGGCCCGCGG
CCGTTTTTCGGGAGGAAGGCGGAGGGGCCAAAGCGAGCCGGTGGATCCATAAAGAACCCAGCCAACCCGAGAGGG
AGGGGAGGGGCTGAGCTGTGAGGAGAGCGGGGCCAAGAACCATGTCTACGCGGGAGTCCTTTAACCCGGAAAGT
TACGAATTGGACAAAAGCTTCCGGCTAACCAGATTCACTGAAGGGCACAGGCTGCAAAGTGCCCCAAGAT
GTCCTGCAAAAATTGCTGGAATCTTTACAGGAGAACCACCTTCCAAGAAGATGAGCAGTTTTCTGGGAGCCGTTATG
CCAAGGCTTGGCATTGGAATGGATACTTGTGTCTTCTTTGAGGCACGGTGGGCTTTCTTGGTTCAAACCACA
GATTACATTTACCCGATCGTAGACGACCCCTTACATGATGGGCAGGATAGCGTGTGCCAATGTCCTCAGTGACCTC
TATGCAATGGGGGTCACGGAATGTGACAATATGCTGATGCTCCTTGGAGTCAGTAATAAAATGACCGACAGGGAA
AGGGATAAAGTGATGCCTCTGATTATCCAAGGTTTTAAAGACGCAGCTGAGGAAGCAGGAACGTCTGTAACAGGC
GGCCAAACAGTACTAAACCCCTGGATTGTCTGGGAGGAGTGGCTACCACTGTCTGCCAACCCAATGAATTTATC
ATGCCAGACAATGCAGTGCCAGGGGACGTGCTGGTGCTGACAAAACCCCTGGGGACACAGGTGGCAGTGGCTGTG
CACCAGTGGCTGGATATCCCTGAGAAATGGAATAAGATTAACTAGTGGTCACCCAAGAAGATGTAGAGCTGGCC
TACCAGGAGGCGATGATGAACATGGCGAGGCTCAACAGGACAGCTGCAGGACTCATGCACACGTTCAATACCCAC
GCCGCCACTGACATCACGGGCTTCGGGATTTTGGGCCATGCGCAGAACCTGGCCAAGCAGCAGAGGAACGAGGTG
TCGTTTGTAATTCACAACCTCCCGGTGCTGGCCAAGATGGCTGCGGTGAGCAAGGCCTGCGGAAACATGTTCCGGC
CTCATGCACGGGACCTGCCCGGAGACTTCAGGCGGCCTTCTGATCTGTTTACCACGTGAGCAAGCAGCTCGGTTT
TGTGCAGAGATAAAGTCCCCCAATATGGTGAAGGCCACCAAGCATGGATTATTGGGATTGTAGAGAAGGGCAAC
CGCACAGCCAGAATCATAGACAAACCCCGGATCATCGAGGTGCGCACACAAGTGGCCACTCAAACCGTGAATCCCA
CACCCGGGGCCACCTCTTAATCTAGACAGAAATAGCTGTTTGGTTTTGTTTTTAAATAGATCTATTTCCCTTATC
ACTTCAATTAAAGACTATAAACAAACAAAATCTCATTGTGTCTACACATCGGGGTGACCTTAGGTCGGTTTGTA
GTGGATACAATTAATAAAATAAAATCCATTGCCTTTTTTCTGTTACATTAAGTGAAGATCGACCTAATCTTGA
GGCAGCTTCTGAGTTGAGAATT

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FIGURE 759

MSTRESFNPESYELDKSFRLTRFTELKGTGCKVPQDVLQKLLSLQENHFQEDQFLGAVMPRLGIGMDTCVIPL
RHGGLSLVQTTDYIYPIVDDPYMMGRIACANVLSPLYAMGVTECDNMLMLLGVS NKMTDRERDKVMPLIIQGFKD
AAEEAGTSVTGGQTVLNPWIVLGGVATTVCQPNEFIMPDNAVPGDVLVLT KPLGTQVAVAVHQWLDIPEKWNKIK
LVVTQEDVELAYQEAMNMARLNRTAAGLMHTFNTHAATDITGFGILGHAQNLAKQQRNEVSFVIHNLPLAKMA
AVSKACGNMFGLMHGTCPETSGGLLICLPREQAARFCAEIKSPKYGEGHQAWIIGIVEKGNRTARIIDKPRIIEV
AHKWPLKT

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FIGURE 760

TCTCCCTCCGCCTCCCGAGCACCAGCGCTCTGAGCTGCCCCAGGGTCCCTCCCCCGCCGCCAGCAGCCCATTT
TGGAGGGAGGAAGTAAGGGAAGAGGAGAGGAAGGGGAGCCGGACCGACTACCCAGACAGAGCCGGTGAATGGGTT
TGTGGTGACCCCGCCCCCACCACCCCTCCCTTCCCACCCGACCCCAACCCCATCCCCAGTTCGAGCCGCC
GCCCCGAAAGGCCGGGCGCTCGTCTTAGGAGGAGTGC CGCGCCGCCACCTCCGCCATGGAGCTGATCACCATTTC
TCGAGAAGACCGTGTCTCCCGATCGGCTGGAGCTGGAAGCGGCGCAGAAGTTCTTGAGCGTGGCGCGCTGGAGA
ACCTGCCCACTTTCTTGTGGAAGTGTCCAGAGTGTGGCAAATCCAGGAAACAGTCAGGTTGCCAGAGTTGCAG
CTGGTCTACAAATCAAGAAGTCTTTGACATCTAAAGATCCAGATATCAAGGCACAATATCAGCAGAGGTGGCTTG
CTATTGATGCTAATGCTCGACGAGAAGTCAAGAAGTATGTTTTGCAGACATTGGGTACAGAACTTACCGGCCCTA
GTTCTGCCTCACAGTGTGTGGCTGGTATTGCTTGTGCAGAGATCCCAGTAAACCAGTGGCCAGAAGTCAATTCCTC
AGCTGGTGGCCAAATGTCAAAACCCCAACAGCACAGAGCACATGAAGGAGTCGACATTGGAAGCCATCGGTTATA
TTTGCCAAGATATAGACCCAGAGCAGCTACAAGATAAATCCAATGAGATTCTGACTGCCATAATCCAGGGGATGA
GGAAAGAAGAGCCTAGTAATAATGTGAAGCTAGCTGCTACGAATGCACTCCTGAACTCATTGGAGTTACCAAAG
CAAAGTTTGATAAAGAGTCTGAAAGGCACCTTTATTATGCAGGTGGTCTGTGAAGCCACACAGTGTCCAGATACGA
GGGTACGAGTGGCTGCTTTACAGAATCTGGTGAAGATAATGTCCTTATATTATCAGTACATGGAGACATATATGG
GTCTGCTCTTTTTGCAATCACAATCGAAGCAATGAAAAGTGACATTGATGAGGTGGCTTTACAAGGGATAGAAT
TCTGGTCCAATGTCTGTGATGAGGAAATGGATTGGCCATTGAAGCTTCAGAGGCAGCAGAACAAGGACGGCCCC
CTGAGCACACCAGCAAGTTTTATGCGAAGGGAGCACTACAGTATCTGGTTCCAATCTCACACAGACACTAACTA
AACAGGACGAAAATGATGATGACGATGACTGGAACCCCTGCAAAGCAGCAGGGGTGTGCTCATGCTTCTGGCCA
CCTGCTGTGAAGATGACATTGTCCACATGTCTCCCTTCATTAAAGAACACATCAAGAACCAGATTGGCGGT
ACCGGGATGCAGCAGTGTGCTTTTGGTTGTATCTTGAAGGACCAGAGCCAGTCAGCTCAAACCACTAGTTA
TACAGGCTATGCCCACCCTAATAGAATTAATGAAAGACCCAGTGTAGTTGTTTCGAGATACAGCTGCATGGACTG
TAGGCAGAATTTGTGAGCTGCTTCCCTGAAGCTGCCATCAATGATGTCTACTTGGCTCCCTGCTACAGTGTCTGA
TTGAGGGTCTCAGTGTGAACCCAGAGTGGCTTCAAATGTGTGCTGGGCTTTCTCCAGTCTGGCTGAAGCTGCTT
ATGAAGCTGCAGACGTTGCTGATGATCAGGAAGAACCAGCTACTTACTGCTTATCTTCTCATTTGAACTCATAG
TTCAGAAGCTCCTAGAGACTACAGACAGACCTGATGGACACCAGAACAACCTGAGGAGTCTGCATATGAATCTC
TGATGGAATTGTGAAAAACAGTGCCAAGGATTGTTATCTGTGTCCAGAAAACGACTTTGGTCATCATGGAAC
GACTGCAACAGGTTCTTCAGATGGAGTCACATATCCAGAGCACATCCGATAGAATCCAGTTCAATGACCTTCAGT
CTTTACTCTGTGCAACTCTTCAGAATGTTCTTCGGAAGTGCAACATCAAGATGCTTTGCAGATCTCTGATGTGG
TTATGGCCTCCCTGTTAAGGATGTTCCAAAGCACAGCTGGGTCTGGGGGAGTACAAGAGGATGCCCTGATGGCAG
TTAGCACACTGGTGGAGTGTGGGTGGTGAATTCTCAAGTACATGGAGGCCTTTAAACCCCTTCTGGGCATTG
GATTAATAAATTATGCTGAATACCAGGTTTGTGTTGGCAGCTGTGGGCTTAGTGGGAGACTTGTGCCGTGCCCTGC
AATCCAACATCATACCTTTCTGTGACGAGGTGATGCAGCTGCTTCTGGAATAATTTGGGGAATGAGAAGTCCACA
GGTCTGTGAAGCCGCAGATTCTGTCTAGTGTGTTGGTGATATTGCCCTTGTATTGGAGGAGAGTTTAAAAATACT
TAGAGGTTGTATTGAATACTCTTCAGCAGGCCTCCCAAGCCCAGGTGGACAAGTCAGACTATGACATGGTGGATT
ATCTGAATGAGCTAAGGGAAAGCTGCTTGAAGCCTATACTGGAATCGTCCAGGGATTAAAGGGGGATCAGGAGA
ACGTACACCCGGATGTGATGCTGGTACAACCCAGAGTAGAATTTATTCTGTCTTTTATTGACCACATTGCTGGAG
ATGAGGATCACACAGATGGAGTAGTAGCTTGTGCTGCTGGACTAATAGGGGACTTATGTACAGCATTGGAAGG
ATGTACTGAAATTAGTAGAAGCTAGGCCAATGATCCATGAATTGTTAACTGAAGGGCGGAGATCGAAGACTAACA
AAGCAAAAACCTTGCTACATGGGCAACAAAAGAACTGAGGAAACTGAAGAACCAAGCTTGATCTGTTACCATTG
GGATGATAACCTGAGGACCCCACTGGAAATCTCCCATCTTTGAAAAACCTGGAAGTGAGGAGTGTGCACGGAT
GCTGAATGTTTGGGAATGAGAGGATGAGTGAGTGAGGCTTGAACACACACCACTTGAATACTGCCACAGCAG
CAGCCGACCCGCCAACAGCAGCGCTGTAGTGAGCTAAGTAAGCACTGACTTCGTAGAAAACCATACATCGGC
CATCTTGAAGAAAGAGAAAAACAATGGAGTTACTTATTTAAAAA

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FIGURE 761

MELITILEKTVSPDRLELEAAQKFLERA AVENLPTFLVELSRVLANPGNSQVARVAAGLQIKNSLT SKDPDIKAQ
YQQRWLAIDANARREVKNYVLQTLGTETYPSSASQCVAGIACAEIPVNQWPELIPQLVANVTNPNSTEHMKEST
LEAIGYICQDIDPEQLQDKSNEILTAIIQGMRKEEPSNNVKLAATNALLNSLEFTKANFDKESERHFIMQVVCEA
TQCPDTRVRVAALQNLVKIMSLYYQMETYMGPAIFAITIEAMKSDIDEVALQGIEFWSNVCDEEMDLAIEASEA
AEQGRPPEHTSKFYAKGALQYLVPILTQTLTKQDENDDDDWNPFCKAAGVCLMLLATCCEDDIVPHVLPFIKEHI
KNPDWRYRDAAVMAFGCILEGPEPSQLKPLVIQAMPTLIELMKDPSVVVRDTAAWTVGRICELLPEAAINDVYLA
PLLQCLIEGLSAEPRVASNVCWAFSSLAEEAYEADVADDQEEPATYCLSSSFELIVQKLETTDRPDGHQNNLR
SSAYESLMEIVKNSAKDCYPAVQKTTLVIMERLQQVLQMESHIQSTSDRIQFNDLQSLLCATLQNVLRKVQHODA
LQISDVVMASLLRMFQSTAGSGGVQEDALMAVSTLVEVLGGEFLKYMEAFKPFLGIGLKNYA EYQVCLAAVGLVG
DLCRALQSNII PFCDEVMLLENLGNENVHRSVKPQILSVFGDIALAIGGEFKKYLEVVLNTLQQASQAQVDKS
DYDMVDYLNELRESCLEAYTGIVQGLKGDQENVHPDVMLVQPRVEFILSFIDHIAGDEDHTDGVVACAAGLIGDL
CTAFGKDVLLKVEARPMIHELLTEGRRSKTNKAKTLATWATKELRKLKNQA

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FIGURE 762

GGCACGAGGCTGCTGTTTGTCTACTTCCTCCTGCTTCCCCGCCGCCGCCGCCATCATGAGGGAAATCGTGCA
CTTGCAAGGCCGGGCAGTGCGGCAACCAAATCGGCGCCAAGTTTTGGGAGGTGATCAGCGATGAGCACGGCATCGA
CCCCACGGGCACCTACCACGGGGACAGCGACCTGCAGCTGGAACGCATCAACGTGTACTACAATGAGGCCACCGG
CGGCAAGTACGTGCCCCGCCGCTGCTCGTGATCTGGAGCCCGGCACCATGGACTCCGTGCGCTCGGGGCCCTT
CGGGCAGATCTTCCGGCCGGACAACCTTCGTTTTTCGGTCAGAGTGGTGTGGGAACAACCTGGGCCAAGGGGCACTA
CACAGAAGGCGCGGAGCTGGTGGACTCGGTGCTGGATGTTGTGAGAAAGGAGGCTGAGAGCTGTGACTGCCTGCA
GGGTTTCCAGCTGACCCACTCCCTGGGTGGGGGACTGGGTCTGGGATGGGTACCCCTCCTCATCAGCAAGATCCG
GGAGGAGTACCCAGACAGGATCATGAACACGTTTAGTGTGGTGCCTTCGCCCCAAAGTGTGAGACACAGTGGTGG
GCCCTACAACGCCACCCCTCTCAGTCCACCAGCTCGTAGAAAACACAGACGAGACCTACTGCATTGATAACGAAGC
TCTCTACGACATTTGCTTCAGAACCCTAAAGCTGACCACGCCCACCTATGGTGACCTGAACCACCTGGTGTCTGC
TACCATGAGTGGGGTCACCACCTGCCTGCGCTTCCCAGGCCAGCTCAATGCTGACCTGCGGAAGCTGGCTGTGAA
CATGGTCCCGTTTTCCCCGGCTGCACTTCTTCATGCCCGGCTTTGCCCACTGACCAGCCGGGGCAGCCAGCAGTA
CCGGGCGCTGACCGTGCCCGAGCTCACCAGCAGATGTTTGATGCCAAGAACATGATGGCTGCCTGCGACCCCCG
CCATGGCCGCTACCTGACGGTTGCCGCCGTGTTAGGGGCCGCATGTCCATGAAGGAGGTGGATGAGCAAATGCT
TAATGTCCAAAACAAAAACAGCAGCTATTTTGTGAGTGGATCCCAACAATGTGAAAACGGCTGTCTGTGACAT
CCCACCTCGGGGGCTAAAAATGTCCGCCACCTTCATTGGCAACAGCACGGCCATCCAGGAGCTGTTCAGCGCAT
CTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCTTCTGCACTGGTACACGGGCGAGGGCATGGACGAGAT
GGAGTTCACCGAGGCCGAGAGCAACATGAATGACCTGGTGTCCGAGTACCAGCAGTACCAGGATGCCACAGCCGA
GGAGGAGGGCGAGTTGAGGAGGAGGCTGAGGAGGAGGTGGCCTAGAGCCTTCAGTCACTGGGGAAAGCAGGGAA
GCAGTGTGAACCTTTTATTCACTCCCAGCCTGTCTGTGGCCTGTCCCACTGTGTGCACTTGTGTTTTCCCTGT
CCACATCCATGCTGTACAGACACCACCATTAAGCATTTTCATAGTGAIAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 763

MREIVHLQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLERINVYYNEATGGKYVPRAVLVDLEPGTMS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLQGFLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTPTYGDL
NHLVSATMSGVTTCLRFPGLNADLRKLAVNMVFFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDAKNMM
AACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMSATFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATAEEEEGEFEEEEEEVA

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FIGURE 764

GGTTTCCGGAGCTGCGGGCGGCAGACTGGGAGGGGGAGCCGGGGGTTCCGACGTCGAGCCGAGGGAACAAGCC
CCAACCGGATCCTGGACAGGCACCCCGCTTGGCGCTGTCTCTCCCCCTCGGCTCGGAGAGGCCCTTCGGCCTGA
GGGAGCCTCGCCGCCCGTCCCGGCACACGCGCAGCCCCGGCCTCTCGGCCTCTGCCGGAGAAACAGGATGGCCC
AATGGAATCAGCTACAGCAGCTTGACACACGGTACCTGGAGCAGTCCATCAGCTCTACAGTGACAGCTTCCCAA
TGGAGCTGCGGCAGTTTCTGGCCCCCTTGATTGAGAGTCAAGATTGGGCATATGCGGCCAGCAAAGAATCAGATG
CCACTTTGGTGTTCATAATCTCCTGGGAGAGATTGACCAGCAGTATAGCCGCTTCCTGCAAGAGTCGAATGTTT
TCTATCAGCACAACTACGAAGAATCAAGCAGTTTCTTCAGAGCAGGTATCTTGAGAAGCCAATGGAGATTGCC
GGATTGTGGCCCGGTGCCTGTGGGAAGAATCACGCCCTTCTACAGACTGCAGCCACTGCGGCCAGCAAGGGGGCC
AGGCCAACCCACAGCAGCCGTGGTGACGGAGAAGCAGCAGATGCTGGAGCAGCACCTTCAGGATGTCCGGA
AGAGAGTGCAGGATCTAGAACAGAAAAATGAAAGTTGGTAGAGAATCTCCAGGATGACTTTGATTTCAACTATAAAA
CCCTCAAGAGTCAAGGAGACATGCAAGATCTGAATGGAACAACACAGTCAGTGACCAGGCAGAAGATGCAGCAGC
TGAACAGATGCTCACTGCGCTGGACCAGATGCGGAGAAGCATCTGTAGTGAGCTGCGGGGGCTTTTGTGACGGA
TGGAGTACGTGCAGAAAACTCTACGGACGAGGAGCTGGCTGACTGGAAGAGGCGCAACAGATTGCCTGCATTG
GAGCCCCGCCAACATCTGCCTAGATCGGCTAGAAAACTGGATAACGTCATTAGCAGAATCTCAACTTCAGACCC
GTCAACAAATTAAGAAACTGGAGGAGTTGCAGCAAAAAGTTTCTACAAAGGGGACCCCATTTGTACAGCACCAGGC
CGATGCTGGAGGAGAGAATCGTGGAGCTGTTTAGAACTTAATGAAAAGTGCCTTTGTGGTGGAGCGGCAGCCCT
GCATGCCCATGCATCCTGACCGGCCCTCGTCATCAAGACCGGCTCCAGTTCACTACTAAAGTCAGGTTGCTGG
TCAAATTCCCTGAGTTGAATTATCAGCTTAAATTAAGTGTGCATTGACAAAGACTCTGGGGACGTTGCAGCTC
TCAGAGGATCCCGGAAATTTAACATTCTGGGCACAAACACAAAAGTGATGAACATGGAAGAATCCAACAACGGCA
GCCTCTCTGCAGAATTCAAACACTTGACCCTGAGGGAGCAGAGATGTGGGAATGGGGGCCGAGCCAATTGTGATG
CTCCCTGATTGTGACTGAGGAGCTGCACCTGATCACCTTTGAGACCGAGGTGTATACCAAGGCCCTCAAGATTG
ACCTAGAGACCCACTCCTTGCCAGTTGTGGTGATCTCCAACATCTGTCAGATGCCAAATGCCTGGGCGTCCATCC
TGTGGTACAACATGCTGACCAACAATCCCAAGAATGTAAACTTTTTTACCAAGCCCCCAATTGGAACCTGGGATC
AAGTGGCCGAGGTCTGAGCTGGCAGTTCTCTCCACCACCAAGCGAGGACTGAGCATCGAGCAGCTGACTACAC
TGGCAGAGAACTCTTGGGACCTGGTGTGAATTATTCAGGGTGTGAGATCACATGGGCTAAATTTTGCAAGAAA
ACATGGCTGGCAAGGGCTTCTCCTTCTGGGTCTGGCTGGACAATATCATTGACCTTGTAAGAAAGTACATCCTGG
CCCTTTGGAACGAAGGGTACATCATGGGCTTTATCAGTAAGGAGCGGGAGCGGGCCATCTTGAGCACTAAGCCTC
CAGGCACCTTCTGTGAAGATTGAGTGAAGCAGCAAGAAGGAGGCGTCACTTTCACTTGGGTGGAGAAGGACA
TCAGCGGTAAGACCCAGATCCAGTCCGTGGAACCATACACAAAGCAGCAGCTGAACAACATGTCAATTGCTGAAA
TCATCATGGGCTATAAGATCATGGATGCTACCAATATCCTGGTGTCTCCACTGGTCTATCTCTATCTGACATT
CCAAGGAGGAGGCATTGGAAGTATTGTGCGCCAGAGAGCCAGGAGCATCCTGAAGCTGACCCAGGCGCTGCCC
CATACCTGAAGACCAAGTTTATCTGTGTGACACCAACGACCTGCAGCAATACCATTGACCTGCCGATGTCCCCC
GCACCTTAGATTGATTGATGAGTTTGGAAATAATGGTGAAGGTGCTGAACCTCAGCAGGAGGGCAGTTTGAGT
CCCTCACCTTTGACATGGAGTTGACCTCGGAGTGCCTACCTCCCCATGTGAGGAGCTGAGAACGGAAGCTGCA
GAAAGATACGACTGAGGCGCCTACCTGCATTCTGCCACCCCTCACACAGCCAAACCCAGATCATCTGAAACTAC
TAACTTTGTGGTTCCAGATTTTTTTAATCTCCTACTTCTGCTATCTTTGAGCAATCTGGGCACTTTTAAAAATA
GAGAAATGAGTGAATGTGGGTGATCTGCTTTTATCTAAATGCAATAAGGATGTGTTCTCTGAGACCCATGATCA
GGGGATGTGGCGGGGGGTGGCTAGAGGGAGAAAAAGGAAATGTCTTGTTGTTTTGTCCCTGCCCTCCTTTT
TCAGCAGCTTTTTGTTATTGTTGTTGTTGTTTCTTAGACAAGTGCCTCCTGGTGCTGCGGCATCCTTCTGCCTGT
TTCTGTAAGCAATGCCACAGGCCACCTATAGCTACATACTCCTGGCATTGCACTTTTTAACCTTGCTGACATCC
AAATAGAAGATAGGACTATCTAAGCCCTAGGTTTCTTTTTAAATTAAGAAATAATAACAATTAAGGGCAAAAAA
CACTGTATCAGCATAGCCTTTCTGTATTTAAGAACTTAAGCAGCCGGGCATGGTGCTCACGCCTGTAATCCCA
GCACCTTTGGGAGGCCGAGGCGGATCATAAGGTGAGGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCCGTC
TCTACTAAAAGTACAAAAAATTAGCTGGGTGTGGTGGTGGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGC
AGGAGAATCGCTTGAACCTGAGAGGCGGAGGTTGCAGTGAGCCAAAATTGCACCACTGCACACTGCACTCCATCC
TGGGCGACAGTCTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 765

MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATLVFHNLLGEIDQQYSRFLQES
NVLYQHNLRRRIKQFLQSRYLEKPMELARIVARCLWEESRLLQTAATAAQGGQANHPTAAVVTEKQQMLEQHLQD
VRKRVQDLEQKMKVVENLQDDDFNYKTLKSQGDMQDLNGNNSVTRQKMQQLEQMLTALDQMRRSIVSELAGLL
SAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLNWIITSLAESQLQTRQQIKKLEELQKQVSYKGDPIVQ
HRPMLEERIVELFRNLMKSAFVVERQPCMPMHPDRPLVIKTGVQFTTKVRLLVKFPELNYQLKIKVCIDKDSGDV
AALRGSRKFNILGTNTKVMNMEESNNGSLSAEFKHLTLREQRCGNGGRANCDASLIVTEELHLITFETEVYHQGL
KIDLETHSLPVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQVAEVLWQFSSTTKRGLSIEQL
TTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGFSEWVWLDNIIDLVKKYILALWNEGYIMGFISKERERAILST
KPPGTFLLRFSSESSKEGGVTFTWVEKDISGKTQIQSVEPYTKQQLNNMSFAEIIMGYKIMDATNILVSPLVLYLP
DIPKEEAFGKYCRPESQEHPEADPGSAAPYLKTKFICVTPTCSNTIDLPMSPRTLDSLMOFGNNGEGAEP SAGG
QFESLTFDMELTSECATSPM

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FIGURE 766

GCGAGTTGTGTGAGCCGCCAGTATGGCCGGGCTATGGCGGCGAGCACTGGCTACGTGCGACTGTGGGGAGCGGCG
CGGTGCTGGGTGCTGCGGCGGCCGATGCTGGCCGCCCGGGGGCGGGTTCCCACTGCGAGCAGGAGCGTGGTTG
CTCCGAGGCCAGCGGACCTGCGACGCCTCTCCTCCTTGGGCACCTGTGGGGCCGAGGCCCGGCAATTGGGGGCCAA
TGGCGGGGGTTTTGGGAAGCGAGCAGCCGCGGCGGAGGCGCATTTCTCGGGGGGCGAGGACGCCTCCGAGGGCGGC
GCGGAGGAAGGAGCCGCGGCGCGGGGGGACGCGGGCGCCGGGAAGGCCCGGTCAATAACGCGCTCACGCC
ATGACGATCCCCGATGTGTTTCCGCACCTGCCCTCATCGCCATCACCCGCAACCCGGTGTTCGCGCTTTATC
AAGATTATCGAGGTTAAAAATAAGAAGTTGGTTGAGCTGCTGAGAAGGAAAGTTCGTCTCGCCAGCCCTTATGTC
GGCGTCTTTCTAAAGAGAGATGACAGCAATGAGTCGGATGTGGTCGAGAGCCTGGATGAAATCTACCACACGGGG
ACGTTTGGCCAGATCCATGAGATGCAGGACCTTGGGGACAAGCTGCGCATGATCGTCATGGGACACAGAAGAGTC
CATATCAGCAGACAGCTGGAGGTGGAGCCCGAGGAGCCGGAGGCGGAGAACAAGCACAAGCCCCGAGGAAGTCA
AAGCGGGGCAAGAAGGAGGCGGAGGACGAGCTGAGCGCCAGGCACCCGCGGAGCTGGCGATGGAGCCCACCCCT
GAGCTCCCGGCTGAGGTGCTCATGGTGGAGGTAGAGAACGTTGTCCACGAGGACTTCCAGGTACGAGGAGGAGTG
AAAGCCCTGACTGCAGAGATCGTGAAGACCATCCGGACATCATTGCCTTGAACCCCTCTCTACAGGGAGTCAGTG
CTGCAGATGATGCAGGCTGGCCAGCGGGTGGTGGACAACCCCATCTACCTGAGCGACATGGGCGCCGCGCTCACC
GGGGCCGAGTCCCATGAGCTGCAGGACGTCCTGGAAGAGACCAATATTCTAAGCGGCTGTACAAGGCCCTCTCC
CTGCTGAAGAAGGAATTTGAAGTGAAGCTGCAGCAGCGCTGGGGCGGGAGGTGGAGGAGAAGATCAAGCAG
ACCCACCGTAAGTACCTGCTGCAGGAGCAGCTAAAGATCATCAAGAAGGAGCTGGGCCTGGAGAAGGACGACAAG
GATGCCATCGAGGAGAAGTTCCGGGAGCGCTGAAGGAGCTCGTGGTCCCAAGCACGTCATGGATGTTGTGGAC
GAGGAGCTGAGCAAGCTGGGCCTGCTGGACAACCACTCCTCGGAGTTCAATGTACCCGCAACTACCTAGACTGG
CTCACGTCCATCCCTTGGGGCAAGTACAGCAACGAGAACCTGGACCTGGCGGGGCACAGGCAGTGCTGGAGGAA
GACCACTACGGCATGGAGGACGTCAAGAAACGCATCCTGGAGTTTATTGCCGTTAGCCAGCTCCGCGGCTCCACC
CAGGGCAAGATCCTCTGCTTCTATGGCCCCCTGGCGTGGGTAAGACCAGCATTGCTCGCTCCATCGCCGCGCC
CTGAACCGAGAGTACTTCCGCTTACGCGTCGGGGCATGACTGACGTGGCTGAGATCAAGGGCCACAGGCGGACC
TACGTGGGCGCCATGCCCCGGAAGATCATCCAGTGTGTTGAAGAAGACCAAGACGGAGAACCCCTGATCCTCATC
GACGAGGTGGACAAGATCGGCCGAGGCTACCAGGGGACCCGTCGTCGGCACTGCTGGAGCTGCTGGACCCAGAG
CAGAATGCCAACTTCTGGAACCACTACCTGGACGTGCCCCGTTGACTTGTCCAAGGTGCTGTTTATCTGCACGGCC
AACGTCACGGACACCATCCCCGAGCCGCTGCGAGACCGTATGGAGATGATCAACGTGTCGGGCTACGTGGCCCCAG
GAGAAGCTGGCCATTGCGGAGCGCTACCTGGTGGCCAGGCTCGCGCCCTGTGTGGCTTGGATGAGAGCAAGGCC
AAGCTGTCATCGGACGTGCTGACGCTGCTCATCAAGCAGTACTGCCGCGAGAGCGGTGTCCGCAACCTGCAGAAG
CAAGTGGAGAAGGTGTTACGGAAATCGGCCTACAAGATTGTACGCGCGAGGCGGAGTCCGTGGAGGTGACGCCC
GAGAACCTGCAGGACTTCTGGGGAAGCCCGTGTACCCGTGGAGCGCATGTATGACGTGACACCGCCCGCGGTG
GTCATGGGGCTGGCCTGGACCGCAATGGGAGGCTCCACGCTGTTTGTGGAGACATCCCTGAGACGGCCACAGGAC
AAGGATGCCAAGGGTGACAAGGATGGCAGCCTGGAGGTGACAGGCCAGCTGGGGGAGGTGATGAAGGAGAGCGCC
CGCATAGCCTACACCTTCGCCAGAGCCTTCTCATGCGACGACGCCCCGCAATGACTACCTGGTGACCTCACAC
ATCCACCTGCATGTGCCCGAGGGCGCCACCCCCAAGGACGGCCCAAGCGCAGGCTGCACCATCGTCACGGCCCTG
CTGTCCCTGGCCATGGGCAGGCCTGTCCGGCAGAATCTGGCCATGACTGGCGAAGTCTCCCTACGGGCAAGATC
CTGCCTGTTGGTGGCATCAAGGAGAAGACATTGCGGCCAAGCGCGCAGGGGTGACGTGCATCGTCCCTGCCAGCC
GAGAACAAGAAGGACTTCTACGACCTGGCAGCCTTCATCACCGAGGGCCTGGAGGTGCACTTCGTGGAACACTAC
CGGGAGATCTTCGACATCGCCTTCCCGGACGAGCAGGCAGAGGCGCTGGCCGTGGAACGGTGAACGGCCACCCCGG
GACTGCAGGCGGCGGATGTGAGGCCCTGTCTGGGCCAGAACTGAGCGCTGTGGGGAGCGCGCCCGGACCTGGCAG
TGGAGCCACCGAGCGAGCAGCTCGGTCCAGTGACCCAGATCCAGGGACCTCAGTCGGCTTAATCAGAGTGTGGC
ATAGAAGCTATTTAATGATTAAAGTCATTTGCAGTA

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FIGURE 767

MAASTGYVRLWGAARCWVLRPMLAAAGGRVPTAAGAWLLRGQRTCDASPPWALWGRGPAIGGQWRGFWEASSRG
GGAFSGGEDASEGGAEEGAGGAGGSAGAGEGPVITALTPTMIPDVFPHLPLIAITRNPVFPRIKIEVKNNKKLV
ELLRRKVRLAQPYVGVFLKRDDSNESDVVESLDEIYHTGTFAQIHEMQDLGDKLRMIVMGHRRVHISRQLEVEPE
EPEAENKHKPRRKSARGKKEAEDELSARHPAELAMEPTPELPAEVLMEVENNVHEDFQVTEEVKALTAIEIVKTI
RDIIALNPLYRESVLQMMQAGQRVVDNPIYLSDMGAALTGAESHELQDVLEETNIPKRLYKALSLLKKEFELSCL
QQRLGREVEEEKIKQTHRKYLLQEQLKIIKKELGLEKDDKDAIEEKFRERLRELVPKHVMDVVDDEELSKLGLLDN
HSSEFNVTRNYLDWLTSIPWGKYSNENLDLARAQVLEEDHYGMEDVKKRILEFIAVSQLRGSTQGKILCFYGP
GVGKTSIARSIARALNREYFRFSVGGMTDVAEIKGHRRTYVGAMPKIIQCLKKTENPLILIDEVDKIGRGYQ
GDPSSALLELLDPEQNANFLDHYLDVPVDLSKVLFICTANVTDTIPEPLRDRMEMINVSQYVAQEKLAIAERYLV
PQARALCGLDESKAKLSSDVLTLLIKQYCRESGVRNLQKQVEKVLRSAYKIVSGEASVEVTPENLQDFVGKPV
FTVERMYDVTPPGVVMGLAWTAMGGSTLFVETSLRRPQDKDAKGDKGSLEVTGQLGEVMKESARIAYTFARAFL
MQHAPANDYLVTSIHHLHVPEGATPKDGPSAGCTIVTALLSLAMGRPVRQNLAMTGEVSLTGKILPVGGIKEKTI
AAKRAGVTCIVLPAENKKDFYDLAAFITEGLEVHFVEHYREIFDIAFPDEQAELAVR

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FIGURE 768

GTGGGGCTGGGCCCAGCCGACGCGACCTCAGCCTGCGGGCGCTAACTGCCGGTAGGCGTCTGTGTGCGCGCCCA
AGTCGGTGGGGCGGGGACGCGAGGTGTGGATGGGGGGTGCCTTGACCTCTGCCTCAGCCAGTAGCGCAGTCTCG
GCCTCGCCGTTACGGAGATGGTGCCCTGGGTGCGGACGATGGGGCAGAAGCTGAAGCAGCGGCTGCGACTGGACG
TGGGACGCGAGATCTGCCGCCAGTACCCGCTGTTCTGCTTCTGCTGCTCTGTCTCAGCGCCGCTCCCTGCTTC
TTAACAGGTATATTCATATTTTAATGATCTTCTGGTCATTTGTTGCTGGAGTTGTCACATTCTACTGCTCACTAG
GACCTGATTCTCTCTTACCAAATATATTCTTCACAATAAAATACAAACCCAAGCAGTTAGGACTTCAGGAATTAT
TTCTCAAGGTATAGCTGTGCTGTTTGTGGTAAAGTGAAATGTAAACGACATAGGCCTTCTTTGCTACTTGAAA
ACTACCAGCCATGGCTAGACCTGAAAATTTCTTCCAAGGTTGATGCATCTCTCTCAGAGGTGGATATTCATCTA
TTATAACCAAGAACTATTAAAAGCAGCAATGAAGCATATAGAAGTGATAGTTAAAGCCAGACAGAAAGTAAAAA
ATACAGAGTTTTTACAGCAAGCTGCTTTAGAAGAATATGGTCCAGAGCTTCATGTTGCTTTGAGAAGTCGAAGAG
ATGAATTGCACTATTTAAGGAACTTACTGAACTGCTTTTTCTTATATTTTGCTCCTAAAGCAACAGACTGCA
GATCTCTGACCTTACTTATAAGAGAGATTCTGTCTGGCTCTGTGTTCTTCTTCTTTGGATTTCCTAGETGATC
CAGATACTGTGAATCATTTGCTTATCATCTTCATAGATGACAGTCCACCTGAAAAGCAACTGAACCGGCTTCTC
CTTTGGTTCCATTCTTGCGAGAAATTTGCAGAACCTAGAAATAAAAAGCCATCTGTGCTGAAGTTAGAATTGAAGC
AAATCAGAGAGCAACAAGATCTTTTATTTCTGTTTATGAACCTTCTGAAACAAGAAGGCGCAGTGCACGTGTTGC
AGTTTTGTTTACTGTGGAGGAATTTAATGATAGAATTTTACGACCAGAATTATCAAATGATGAAATGCTGTCTC
TTCATGAAGAATTGCAGAAGATTTATAAACATACTGTTTGGATGAAAGTATTGACAAAATTAGATTTGATCCCT
TCATTGTAGAAGAGATTCAAAGAATTGCTGAAGGCCATACATAGATGTTGTGAAACTTCAAATATGAGATGTC
TTTTTGAAGCATATGAACATGTTCTTTCCCTTTTGGAGAATGTATTTACTCTATGTTCTGCCATAGTGATGAGT
ATTTAGACAACCTTTAAGAGGTGCAGAATCACCAACACGCAATTCAAAATTGAACAGGAACACAGAAAAGGG
GAGAATCATTTGGAATCAGCAGAATAGGTAGCAAAATTAAGGAGTATTCAAAGTACCACAATGGAGGGAGCTA
TGTTGCCTAATTATGGTGTAGCTGAAGGTGAAGATGATTTTATTGAAGAAGGTATTGTTGTAATGGAAGATGATT
CTCCAGTGGAGGCTGTGAGCACACCTAATACTCCCCGAAACCTTGCTGCATGGAATAATTAGCATTCCATATGTAG
ACTTTTTTGAGGATCCCTCTCTGAAAGGAAGGAGAAAAAAGAAAGAATTCCTGTGTTTTGTATTGATGTTGAAA
GAAATGATAGAAGAGCAGTTGGACACGAGCCTGAACATTGGTCTGTCTATAGAAGATATCTTGAATTCATGTAC
TTGAATCAAACTAACAGAATTTATGGTGCATTTCTGATGCCAGCTTCCTTCTAAGAGGATCATTGGCCCCCA
AAAATTATGAATTCTTAAAGTCAAAGAGGGAAGAGTTCCAAGAATATCTACAGAACTTCTGCAGCATCCAGAAC
TGAGTAATAGTCAACTTCTGGCAGACTTTCTTTCCCTAATGGTGGGGAACACAATTTCTTGATAAGATACTAC
CAGATGTAAATCTTGGGAAAATTATAAAATCTGTTCCTGGAAACTAATGAAAGAGAAAGGTGAGCATTTGGAAC
CTTTTATCATGAATTTCAATTAATCTGTGAGTCTCAAAGCCTAAACCAAGTAGACCAGAACTGACCATTCTCA
GCCCTACTTCAGAAAACAACAAGAAGCTTTTCAATGATCTGTTTAAAAATAATGCAAACCGTGCTGAAAATACAG
AGAGAAAGCAAAATCAGAATTTATTTATGGAGGTGATGACTGTAGAAGGAGTCTATGATTACCTGATGTATGTAG
GACGGGTAGTTTTCCAGGTTCTGACTGGCTTCATCATCTCTTAATGGGAACTCGAATCCTCTTTAAAAACACCC
TGGAAATGTATACTGATTACTATCTTCAGTGTAACCTAGAACAGCTATTTAGGAGCACCGTTTGGTCTCACTCA
TAACACTTCTCAGAGATGCTATATTCTGTGAAAACACTGAACCTCGCTCTCTCCAAGATAAGCAAAAAGGAGCAA
AACAGACTTTTGAAGAAATGATGAATTACATTCCAGATCTGTTAGTCAAGTGTATTGGTGAAGAAACCAAGTATG
AAAGCATCAGACTTCTGTTTGTGAGTTACAGCAACCGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACA
TTGTGATACAGGAAGTGTTCAGAGCTCAATAAGGTACAAAAGGAAGTTACCTCTGTGACATCTTGGATGTAA
CACTTGGATTTGGTATAGAATAACCCATTGAAATTTCTGCTGTGCGAGGGTGGTAGAAATTTACTTTTTTGGGTA
TATTTCTATATATATTATGTACATCGCTGTCTGAAATTTTAGTTATTTTTGTTTTTAATAAAGACTAACACAAA
CTTAATGATTAAAGTGAAAAAATAAAAAAAAAAAAAA

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FIGURE 769

MGQKLKQRLRLDVGREICRQYPLFCFLLLCLSAASLLLNRYIHILMIFWSFVAGVVTIFYCSLGPDSLLPNIFFTI
KYKPKQLGLQELFPQGHSCAVCGKVCKRHRPSLLENYQPWDLKISSKVDASLSEVDIPSIITKLLKAAMKH
IEVIVKARQKVKNTEFLQQAAL EYGPELHVALRSRDELHYLRKLT ELLFPYILPPKATDCRS LTLLIREILSG
SVFLPSLDFLADPDTVNHLIIIFIDDSPEKATEPASPLVPFLQKFAEPRNKKPSVLKLELKQIREQQDLLFRFM
NFLKQEGAVHVLQFCLTVEEFNDRILRPELSNDEMLSLHEELQKIYKTYCLDESIDKIRFDPFIVEEIQRI AEGP
YIDVVKLQTMRCLEAYEHVLSLENVFTPMFCHSDEYFRQLLRGAESPTRNSKLN RNTQKRGESFGISRIGSKI
KGVFKSTTMEGAMLPNYGVAEGEDDFIEEGIVVMEDDSPVEAVSTPNTPRNLAAWKISIPYVDFPEDPSSERKEK
KERIPVFCIDVERNDRAVGHEPEHWSVYRRYLEFYVLESKLTEFHGAFPDAQLP SKRIIGPKNYEFLKSKREEF
QEYLQKLLQHPELSNSQLLADFLSPNGGETQFLDKILPDVNLGKI IKSVP GKLMKEKGQHLEPFIMNF INSCESP
KPKPSRPELTILSPTS ENNKKLFNDLFKNNANRAENTERKQNQNYFMEVMTVEGVYDYL MYVGRVVFQVPDWLHH
LLMGTRILFKNTLEMYTDYYLQCKLEQLFQEHRVLVSLITLLRDAIFCENTEPRSLQDKQKGAKQTFEEMMYIPD
LLVKCIGEETKYESIRLLFDGLQQPVLNKQLTYVLLDIVIQELFPELNKVQKEVTSVTSWM

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FIGURE 770

AGAGAGGAGCCGACTCGGCAGGGACTGGGGACCGGGCCGAGAGTGCGAGCGAGCGAGGGAGGGAGTGAGGGAGC
GTGCGAGCCAGAAGGGGAAAGGCGGCCACTCGTGCTGAGCGACCGCAGAGGGGAGTGGGAGCAGTGGGGTAAAG
GAGCGGGGGCGGGAATAAGAAAGGCCGAGAGAAGGCGGACAGAGGCTAGTGGTGGTGGTGGTGGTAGGGGGAGA
AGGAGGAGCTGGAGGAGGGCAGGGGCTGAGGGAGTGAGTGAAGCGGACGCGCGAGGGAGGGGAGGGAAGGGAAGG
GAAGGGGAAGGGGGGGTACGCGGGGGCGCGCGCGCACCGGGAGCGCGCTCGGAGGCGAGTGGAAGTGGATCGG
GTTTGCTGCCAGCGGCGTGAGCTTCGGCCGCCATTTTACAACAGCTCCACTCGCGCCGGACACAGGGAGCAGCGA
GCACGCGTTTCCCGCAACCCGATACCATCGGACAGGATTCTCCGCTCAGCCCAACGGGGAGATCTCTGGAAC
ATGGCTACAGAACATGTTAATGGAATGGTACTGAAGAGCCCATGGATACTACTTCTGCAGTTATCCATTAGAA
AATTTTCAGACATTGCTTGATGCTGGTTTACCACAGAAAGTTGCTGAAAACTAGATGAAATTTACGTTGCAGGG
CTAGTTGCACATAGTGATTTAGATGAAAGAGCTATTGAAGCTTTAAAAGAATTCAATGAAGACGGTGCATTGGCA
GTTCTTCAACAGTTTAAAGACAGTGATCTCTCATGTTTCAAGACAAAAGTGCCTTTTTATGTGGAGTCATGAAG
ACTTACAGGCAGAGAGAAAAACAAGGGACCAAGTAGCAGATTCTAGTAAAGGACCAGATGAGGCAAAAATTAAG
GCACTCTTGGAAGAAGCAGGCTACACACTTGATGTGACCACTGGACAGAGGAAGTATGGAGGACCACCTCCAGAT
TCCGTTTTATTAGGTCAGCAGCCTTCTGTTGGCACTGAGATATTTGTGGGAAAGATCCCAAGAGATCTATTTGAG
GATGAAGTTGTTCCATTATTTGAGAAAGCTGGACCTATATGGGATCTTCGTCTAATGATGGATCCACTCACTGGT
CTCAATAGAGTTATGCGTTTGTCACTTTTTGTACAAAAGAAGCAGCTCAGGAGGCTGTTAACTGTATAATAAT
CATGAATTCGTTCTGGAACATATTGGTGTCTGCATCTCAGTTGCCAACAAATAGGCTTTTTGTGGGCTCTATT
CCTAAGAGTAAAACCAAGGAACAGATTCTTGAAGAATTTAGCAAAGTAACAGAGGGTCTTACAGACGTCATTTTA
TACCACCAACCGGATGACAAGAAAAAAACAGGAGCTTTTGTCTTCTTGAATATGAAGATCACAACAGCTGCC
CAGGCAAGGCGTAGGTTAATGAGTGGTAAAGTCAAGGTCTGGGGGAATGTTGGAAGTGTGAATGGGCTGATCCT
ATAGAAGATCCTGATCCTGAGGTTATGGCAAAGTAAAAGTGTGTTGTACGCAACCTTGCCAACTACTGTAACA
GAAGAGATTTTAGAAAAGGCATTTAGTCAGTTTGGGAACTGGAAAGAGTGAAGAAGTTAAAAGATTATGCGTTC
ATTCATTTTGTATGAGCGAGATGGTGTGTCAAGGCTATGGAAGAAATGAATGGCAAAGACTTGGAGGGAGAAAAT
ATTGAAATTGTTTTTGCCAAGCCACCAGATCAGAAAAGGAAAGAAAGAAAGCTCAGAGGCAAGCAGCAAAAAT
CAAATGTATGACGATTACTACTATTATGGTCCACCTCATATGCCCCCTCCAACAAGAGGTCGAGGGCGTGGAGGT
AGAGGTGGTTATGGATATCCTCCAGATTATTATGGATATGAAGATTATTATGATTATTATGGTTATGATTACCAT
AACTATCGTGGTGGATATGAAGATCCATACTATGGTTATGAAGATTTTCAAGTTGGAGCTAGAGGAAGGGGTGGT
AGAGGAGCAAGGGGTGCTGCTCCATCCAGAGGTGCTGGGGCTGCTCCTCCCCGCGGTAGAGCCGTTATTACAG
AGAGGAGGTCTGGATCAGCAAGAGGCGTTGAGGTGCGAGAGGAGGTGCCAACAAACAAAGAGGCCGCGGGGT
CGTGGTGCAGGGGGTGCCGCGGTGGAATGTAGGAGGAAAGCGCAAAGCTGATGGGTACAACCAGCCAGATTCC
AAGCGCGCCAGACCAATAATCAGAACTGGGGCTCCCAACCCATTGCTCAGCAACCGCTCCAAGGTGGTGATCAT
TCTGGTAACATATGGTTACAAATCTGAAAACAGGAGTTTTATCAGGATACTTTTGGGCAACAGTGGAAAGTAGAAA
CAGTAGGGCCTCTGTAAAATTGGAGACTGATAGGTTGATCAGAACTCACCTAAATCTGAACGGGTGCCGCTAT
AATTTGTGACATCTGGCAAGATTTCCCTTTATGTATATATTTTAAACATCCGCTTGGACACGAACAAAGCCACAC
TTCTAACTGCTTCTGGCGAAGTATTTTATTTTAAATTTTTCATTAAGATATTCTTAGATACTGAAAGAAAT
AGTTAATGAGTTTGCATTGTGCTTGAGAAAATTGGCTCAAGTCCATTGGCTGTAGTGTCAACGATGTTTCCA
GTAGTGTTTAGATTGGTGTCTTCAAAGGTAGTTGATTAACCAAGTGTGTCTTTAATATCTTGTATCAGAATA
ACTTTGTATGTTACCAACTTAAATTGCTAGAATAAGGTAAATTGATACCAACTGCTATTTTAAATTTAGAACTT
TGACCTAATTTGGGTTTTCAAACCATTTGGCTACTTGTATTCTTTATGCTGTTGTTTATTTCAATAAAAAAT
CACACCT

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FIGURE 771

MATEHVNGNGTEEPMDTTSAVIHSENFQTL LDAGLPQKVAEKLDEIYVAGLVAHSDLDERAIEALKEFNEDGALA
VLQQFKDSDL SHVQNKSAFLCGVMKTYRQREKQGTKVADSSKGPDEAKIKALLERTGYTL DVTTGQRKYGGPPPD
SVYSGQQPSVGTEIFVGKIPRDLFEDELVPLFEKAGPIWDLRLMMDPLTGLNRGYAFVTFCTKEAAQEAVKLYNN
HEIRSGKHIGVCISVANNRLFVGSIPKSKTKEQILEEF SKVTEGLTDVILYHQPDDKKKNRSFCFLEYEDHKTA
QARRRLMSGKVKVWGNVGTVEWADPIEDPDPEVMAKVVL FVRNLANTVTÉEILEKAFSQFGKLERVKKLKDYAF
IHFDERDGAVKAMEEMNGKDLEGENIEIVFAKPPDQKRKERKAQRQA AKNQMYDDYYYYGPPHMPPTTRGRGRGG
RGGYGYPPDYGYEDYYDYGYDYHNYRGGYEDPYGYEDFQVGARGRGGRGARGAAPS RGRGAAPPRGRAGYSQ
RGGPGSARGVRGARGGAQQQRGRGVRGARGGRGNGVGGKRRKADGYNQPD SKRRQTNNQNWGSQPIAQQPLQGGDH
SGNYGYKSENQEFYQDTFGQQWK

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FIGURE 772

CTTTTCTCCATCTCAGAACCTTCCTGCCGTGCGTTTGACCTCGCTGCTCCAGCCTCTGGGGCGCATTCCAAC
CTTCCAGCCTGCGACCTGCGGAGAAAAAAATTACTTATTTTCTTGCCCCATACATACCTTGAGGCGAGCAAAAA
AATTAAATTTTAACCATGAGGGAAATCGTGACATCCAGGCTGGTCAGTGTGGCAACCAGATCGGTGCCAAGTTC
TGGGAGGTGATCAGTGATGAACATGGCATCGACCCACCGGCACCTACCACGGGGACAGCGACCTGCAGCTGGAC
CGCATCTCTGTGTACTACAATGAAGCCACAGGTGGCAAATATGTTCTCGTGCCATCCTGGTGGATCTAGAACCT
GGGACCATGGACTCTGTTGCTCAGGTCTTTTGGCCAGATCTTTAGACCAGACAACCTTGTATTTGGTCAGTCT
GGGGCAGGTAACAACGGGGCAAAGGCCACTACACAGAGGGCGCCGAGCTGGTTGATTCTGTCTGGATGTGGTA
CGGAAGGAGGCAGAGAGCTGTGACTGCTGCAGGGCTTCAGCTGACCCACTCACTGGGCGGGGGCACAGGCTCT
GGAATGGGCACTCTCCTTATCAGCAAGATCCGAGAAGAATACCCTGATCGCATCATGAATACCTTCAGTGTGGTG
CCTTCACCCAAAGTGTCTGACACCGTGGTCGAGCCCTACAATGCCACCCCTCTCCGTCCATCAGTTGGTAGAGAAT
ACTGATGAGACCTATTGCATTGACAACGAGGCCCTCTATGATATCTGCTTCCGCACTCTGAAGCTGACCACCA
ACCTACGGGGATCTGAACCACTTGTCTCAGCCACCATGAGTGGTGTCAACACCTGCCTCCGTTTCCCTGGCCAG
CTCAATGCTGACCTCCGCAAGTTGGCAGTCAACATGGTCCCCTTCCACGTCTCCATTTCTTATGCCTGGCTTT
GCCCCCTCACCAGCCGTGGAAGCCAGCAGTATCGAGCTCTCACAGTGCCGGAACCTACCCAGCAGGTCTTCGAT
GCCAAGGACATGATGGCTGCCTGTGACCCCGCCACGGCCGATACCTACCGTGGCTGCTGTCTTCCGTGGTCCG
ATGTCCATGAAGGAGGTGATGAGCAGATGCTTAACGTGCAGAACAAGAACAGCAGCTACTTTGTGGAATGGATC
CCCAACAATGTCAAGACAGCCGTCTGTGACATCCACCTCGTGGCCTCAAGATGGCAGTCACCTTCATTGGCAAT
AGCACAGCCATCCAGGAGCTCTTCAAGCGCATCTCGGAGCAGTTCACTGCCATGTTCCGCCGAAGGCCTTCCTC
CACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCTGAGAGCAACATGAACGACCTCGTCTCT
GAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAGGAGGATTTCCGTGAGGAGGCCGAAGAGGAGGCCTAA

GGCAGAGCCCCCATCACCTCAGGCTTCTCAGTTCCTTAGCCGTCTTACTCAACTGCCCCCTTCTCTCCCTCAG
AATTTGTGTTGCTGCCTCTATCTTGTTTTTGTGTTTTTCTCTGGGGGGGGTCTAGAACAGTGCCCTGGCACAT
AGTAGGCGCTCAATAAATACTTGTTTGTGAAAAA

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FIGURE 773

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLQGFLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTIDETCYIDNEALYDICFRTLKLTTPYGD
NHLVSATMSGVTTCLRFPGLNADLRKLAVNMVPPFRLHFFMPGFAFLTSGSQYRALTVPELTQQVFDAKMM
AACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQNKNSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATAEEEEEDFGEEAEEEE

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FIGURE 774

TGTTCCGCGATCTTCTCAGGCTCTCCTAGCAGCATCCATCGCGCCACCCTATCTTCACTGGCTTCACCTTCTCC
TTCTCTCTTCGTTGCTGAGCGACAAGCTTCCTAGCGCTATGACTGTCGTCTCCGTCCCGCAGCGGGAGCCGCTCG
TCCTGGGTGGCCGCTTGGCCGCTTGGCTTTTCTCCCGAGGTTACTTTGGGGCCCTCCCGATGGTGACCACGG
CTCCGCCCTCTTTACCCCGGATCCCGGACCCCGGGCACTGCCCCGACCCTCTTCTCCCTCATTTCTAGGGG
GAGATGGCCCGTGTCTGACCCCCAGCCTCGCGCTCCAGCAGCTCTGCCCAACCGCAGCCTCGCCGTGGCGGGAG
GCACTCCTCGGGCAGCGCCGAAGAAGCGGCGAAAGAAGAAGGTGCGGGCCAGCCCCGAGGGCAGCTGCCCAGCC
GCTTCCACCAGTACCAGCAGCACCGGCCGAGTCTGGAGGGCGGCGGAGCCCCGCGACCGGCCCGAGCGGAGCGC
AGGAGGTCCCGGGCCCGGCCCGCCCTTGGCCCCGAGTCTGCAGCCGCGAGCCGGCACGGAGGGAGCCAGCCCCG
ACCTTGCCCCGCTGCGGGCCCGCGGCTCCCGGCCAAACCCCTCAGGAAAGAGGTTTTAAATCAAAGATGGGAA
AATCGGAGAAAATTGCCCTTCCCCATGGCCAGCTTGTTTATGGTATACACTTGTATGAGCAACCAAAGATAAACA
GACAGAAAAGCAAATATAACTTGCCACTAACCAAGATCACCTCTGCAAAAAGAAATGAAAACAACCTTTTGGCAGG
ATTCTGTTTCTATCTGACAGAATTCAGAAGCAGGAAAAAAGCCTTTTAAAAATACCGAGAACATTAAAAATTCGC
ATTTGAAGAAATCAGCATTTCTAACTGAAGTGAGCCAAAAGGAAAATTATGCTGGGGCAAAGTTTAGTGATCCAC
CTTCTCCTAGTGTCTTCCAAAGCCTCCTAGTCACTGGATGGGAAGCACTGTTGAAAATTCCAACCAAAACAGGG
AGCTGATGGCAGTACACTTAAAAACCTCCTCAAAGTTCAAACCTTAGATTTTCTAGATTTTCTAGTATGTGTGTA
ATAATTTTTCCCATATCCCTGGACTCTTGAGAAAATTGGTACAGAAATGGAAATTTGCCTTGTGTGCAACATACAA
TTGCAAAAGATGAGTTTAAAAAATTACATACAAACAGCTTGATTATATTTTATATTTTGTAAATACTGTATACC
ATGTATTATGTGTATATTGTTTCACTTGGAGGATATATTATAGTTTGTATGAAAGTATGATTTTGCCTGCG
CCACATTGCAGGTGTTTTGTATATATACAATGGATAAATTTAAGTGTGTGCTAAGGCACATGGAAGACCGATTT
TATTTGCACAAGGTACTGAGATTTTTTCAAGAAACAGCTGTCAAATCTCAAGGTGAAGATCTAAATGTGAACAG
TTTACTAATGCACTACTGAAGTTTAAATCTGTGGCACAATCAATGTAAGCATGGGGTTTGTCTCTAAATTGAT
TTGTAATCTGAAATTACTGAACAACCTCTATTCCCATTTTGTCTAACTCAATTTCTGGTTTTGTTATATATCCA
TTCCAGCTTAATGCCTCTAATTTTAAATGCCAACAAAATTGGTTGTAATCAAATTTTAAAAATAATAAATTTGGC
CCCCCTTTTAAATAGTCTTGACTCTTTGTGTGTGACTGTTTCTCATGTTTGAATGTGTGACTAGGAGATGATT
TTGTGTGGTTGGATTTTTTGAATTTTACTTTTACTGGCTGAGTGTGAGCCGCCATGCCTGGCCATAATCTACATT
TTCTTACCAGGAGCAGCATTGAGGTTTTTGAAGCATAGTACTTGAAGGCTGAGACGGGAGCATCTCT
TGAGCCTGAGAAGTGGAGATTGCAATTGAGCTAGGATCAGGCCACTGCACTCCAGCCTGGGTAACAGACGCTGTC
TCAAAAAAAGGCCAAGAGAAAGTAAGGGAGACAGA

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FIGURE 775

MTVVSVPQREPLVLGGRLAPLGFSSRGYFGALPMVTTAPPELPRI PDPRALPPTLFLPHFLGGDGPCLTPQPRAP
AALPNRSLAVAGGTPRAAPKKRRKKKVRASPAGQLPSRFHQYQQHRPSLEGGRSPATGPSGAQEVPGPAAALAPS
PAAAAGTEGASPD LAPLRPAAPGQTPLRKEVLKSKMGKSEKIALPHGQLVHGIHLYEQPKINRQKSKYNLPLTKI
TSAKRNENNFWQDSVSSDRIQKQEKKPFKNTENIKNSHLKKS AFLTEVSQKENYAGAKFSDPPSPSVLPKPPSHW
MGSTVENSQNRELMAVHLKTLLKVQT

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FIGURE 776

CCCTACCGCCCCAATTCCGCCCTGCCCCCGCCGCGGCGCGCTAGCCGCCACTGAGGGACCGACCCTATAAAGG
CCGCTCCGCGAGGGGTGCGCAGCAATTCGGCAGAGGGCGCTTCGACGGGCTGGGCTGTGCGCCTGCGCAGTGTGGG
TCGCTCCCGATTCCCTGCCCCGGCCGCCCCGCTCGGCTCCGCACCCTCGCCCCGCTCTCAGCCGCCGCTCTGC
CCCGCAGCAGCCAGCCCCGTGTCCGGCAGTATGTTTCAGCTGGGTGAGCAAGGATGCCCCGCCGAAGAAGGAGCCG
GAGCTCTTCCAGACGGTGGCCGAGGGGCTGCGGCAGCTGTACGCGCAGAAGCTGCTACCCCTGGAGGAGCACTAC
CGCTTCCACGAGTTCCACTCGCCCGCRCTGGAGGACGCTGACTTCGACAACAAGCCTATGGTGTCTCTCGTGRGG
CAGTACAGCACGGGCAAGACCACCTTTCATCCGACACCTGATCGAGCAGGACTTCCCGGGGATGCGCATCGGGCCC
GAGCCCACCACCGACTCCTTTCATCGCCGTATGACAGGCCCCACTGAGGGCGTGGTGCCGGGCAACGCGCTGGTG
GTGGACCCGCGCGCCCCCTTCCGCAAGCTCAACGCGTTTGGCAACGCTTTCCTCAACAGGTTTCATGTGTGCCAG
CTGCCCCAACCCGTCCTGGACAGCATCAGCATCATCGACACCCCCGGGATCCTGTCTGGAGAGAAGCAGCGGATC
AGCAGAGGCTATGACTTTGACGCCGTCTGGAGTGGTTCGCGGAGCGTGTGGACCGCATCATCTGCTCTTTCGAC
GCCACAAGCTGGACATCTCCGATGAGTTCTCGGAAGTGATCAAGGCTCTGAAGAACCATGAGGACAAGATCCGC
GTGTGTCTGAACAAGGCAGACCAGATCGAGACGCAGCAGCTGATGCGGGTGTACGGGGCCCTCATGTGGTCCCTG
GGCAAGATCATCAACACCCCCGAGGTGGTTCAGGGTCTACATCGGCTCCTTCTGGTCCACCCGCTCCTCATCCCC
GACAACCGCAAGCTCTTTGAGGCCGAGGAGCAGGACCTCTTCAAGGACATCCAGTCACTGCCCCGAACGCGCCG
CTCAGGAAGCTCAATGACCTGATCAAGCGGGCACGGCTGGCCAAGGTTACGCGCTACATCATCAGTCCCTCAAG
AAAGAGATGCCCAATGTCTTTGGTAAAGAGAGCAAAAAGAAAGAGCTGGTGAACAACCTGGGAGAGATCTACCAG
AAGATTGAGCGCGAGCACCAGATCTCCCTGGGGACTTCCCGAGCCTCCGCAAGATGCAGGAACCTCTGCAGACC
CAGGACTTCAGCAAGTTCCAGGCGCTGAAGCCCAAGCTGCTGGACACGGTGGATGACATGCTGGCCAACGACATC
GCGCGGCTGATGGTGTGGTGCAGGAGGAGTCCCTGATGCCTTCCAGGTGGTCAAGGGCGGCGCCTTTGAC
GGCACCATGAACGGGCGCTTCGGGCACGGCTACGGCGAGGGGGCCGGCGAGGGCATCCACGACGTGGAGTGGGTG
GTGGGCAAGGACAAGCCCACCTACGACGAGATCTTCTACACGCTGTCCCTGTCAACGGCAAGATCACGGGCGCC
AACGCCAAGAAGGAGATGGTGAAGTCCAAGCTCCCCAACACCGTGCTAGGGAAGATCTGGAAGCTGGCCGACGTG
GACAAGGACGGGCTGTGGACGACGAGGAGTTCGCGCTGGCCAACCACCTCATCAAGGTCAAGCTGGAGGGCCAC
GAGCTGCCCGCCGACCTGCCCCCGACCTGGTGCCGCGCTTCCAAGCGCAGACATGAGTGGTGGCGCCCGCCCCG
CACCTGCCATTTGCACGCCCGGCCGGGAGGCAGAGACGGGGGGAGGGGAAGCCTCACCATTCTCAAGGTCCATA
AAGACTGAGCGGATGTTTCTCGCCTCTCGAAAAGGAAAACCACCATCTTCTTTTAAGGTGTTCTCTGGGCCTG
GCGGGGGAGGCAGGGGTGAGAGGATGGAATGTGTGCACAAGAAGTGTGGCTATTTTAATATATAACGTTAGAGG
CTGCGTTCTTTGTGCGCGCTTCCCTGTGTGCCAGCCCTGTGTGCACGGCCTCTGCCCCCGGCCCTTGTGTGTG
GCTGGAGCTGGACAGTGCAGTGAAGTGCAGCGTGGGGGAGCCAGGTGCGCCTTTTGGCAGCTGCTAGGCTGAGGC
TGCATGGACAGGAACACCAGGCACCCCTCCGTGTGCTTCTGAGCTGAGGTGCTTCACGGGACCGTGGCTTCTTC
CTACCTGGCTCTGCCTCCCCGTGCTCTCGGGCGAAGTGGGTCTTGTGCTTCCCTTCCCGGGCCAGGCTCC
CCGTGCGCGGGCCCTGCCCTTTCCTCCCGCGCCCCACCGGCTCCGACGCGCAACCCCGCTCAGCAGTCACAGAAG
CAGGGCCAGCCACCTTGGTCTTTTTTTGGGAGTTTCAGGGGAGTAGGAGAATGTCTTCCAGAAAAATACATAAGC
TAGTTTCTGTCTGTGIAAAGTGATATCTTTTCACTTGACCAAAGTTCCCAATAACTTCCCAACCACTGTTCAAAA
GCTGTGATTTTTGTCTCCCTTCCCACCTCCAGCCAAGGAGCAGCCCTGCCAGGGGAATTTAGGTGTGGGTAC
CCGGGGAGCACCCCGTTTCTGGACCCAGTGTTCATTTCTGGCTGAGGAAGGGTGGTTCATCCAGCTCCTGCC
CTACCTCTCACTTAAGTGGAGCTTTGGGACGCACCCCTCCACAGTGGGAGGTGGTGGTGGGGTGGCGGTGGCGGG
GCCTCACGACAGCTTGGTGTGGTAAGAGGAAGCCCGTGGTTCTGGCTAGGCTCTCATGTCCAGACAGCGGGGAC
CAGGGGAAAACCCAGCCCTTCTGTAATCCCCCTTCACTTCTACCTTCTTCTCTCTGTTTAGCAAAAGGAGG
GCAGCTCACTTGGATGTCTTACAACGCCCCCTGGCCCCAGGTTGAGCAATAAGAAACCAGAACCTTGCAGGCCAG
TGGCCCGGGCCAGTTTCAGGCCGCTCCCCCTCTGCTGCTGGGGCCATTGAGCCCCAGCCTCCAGGGGCCGGGT
GCGTTTGAAGCCAGTGGCCACTGTCCGGGCTGTGATGGCACCAGGCAGGTGGAGCACCAGGTACCACACAGCT
GGGCTTCCCACAGGCTTTCCCGGGGGGTCTCAGGGAGCTTCTCCCCAGCGCTGCTCGGAGTCTGCAGGAAGT
GCCTTGTCTCTTACCCGCTCACTCCATACAGTATTAGGTGAGGATGGATGCGGGCGCTGTCTTGCAGGGAAG
TCACTGTGTAAGTTGAGTGGCTTGTTCACACCTGTGGGAAGAGAAGTGAAGACTTCTCCTTGCAATAAAAGT
CTGAAGTGTGAAAAA

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FIGURE 777

MF SWVSKDARRKKEPELFQTVAEGLRQLYAQKLLPLEEHYRFHEFHSPALEDADFDNKPMVLLVXQYSTGKTTFI
RHLIEQDFPGMRIGPEPTTDSFIAVMHGPTTEGVVPGNALVVDPRRPFRLNAFGNAFLNRFMCAQLPNPVLDSIS
IIDTPGILSGEKQRISRGYDFAAVLEWFAERVDRIILLFDAHKLDISDEFSEVIKALKNHEDKIRVVLNKADQIE
TQQLMRVYGALMWSLGKIINTPEVVRVYIGSFWSHPLLPDNRKLFEEAEQDLFKDIQSLPRNAALRKLNDLIKR
ARLAKVHAYIISSLKKEMPNVFGKESKKKELVNNLGEIYQKIEREHQISPGDFPSLRKMQELLQTQDFSQFQALK
PKLLDTVDDMLANDIARLMVMVRQEESLMPSQVVKGGAFDGTMNGPFHGHYGEAGAGEGIHDVEWVVGDKPTYDE
IFYTLSPVNGKITGANAKKEMVKSCLPNTVLGKIWKLADVDDGLLDDEEFALANHLIKVKLEGHELPADLPPL
VPPSKRRHE

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FIGURE 778

GTCACTCTGGCCAGCCCCGCCCTCCTCCCGGCGTCAGCCCGCCAGAGCCGCGCGGGGCCCGGGCTTCGGCCGA
TCAGCCCGGGAGGCCCCGCCGCGCCCCCTTGGCCCGCGCGCCCGTGGTCACAGTGGAAGAGGCGCCCGCGCTGCG
CTGCCCCGGAGGAGCCGTCGCGCGCCCGCTTCTGTTCGGCTGGTTCTTGCCAGCTCGAGGACAAAACACGCGTGC
GCGCGGCGGGGAGCGCGCTCGCCGCTCAGTCGCCAGCGCCGGGCGCAGTCCGCCCTTTTCCGGAGCAGACTGG
CCGCGGTGCTAGTCGGTAGCAGCGGCCGCCGAGCGGCTCCGCACTGGCGAACCAGAGGGCAGAAAAAGCGGGGT
TGACGGCTTTTTTGGTAGGAGTGGGCTGGACCGGACGCCAGAGACAAAGGCTCCCAAGGCAAGAGGACTGTGGCC
CTGCGTCGGCTCTGCTCGGAACCTGTGACCCAGGAATTTACGCCCTTCGTTTTTCTCTTCTGATTCTTCTCTT
CTCCCAAGCCCGCTCCCTCACGCGTGGCCTCTCTCCTTGGCGGGAGGGCCGCGATGGAGGTCCCGCCAGGCT
TTCCCATGTGCCGCCGCCATTGTTCCCTCCGCTCCCGCTACTTTAGCCTCCCGCAGCCTCTCCCATTTGGCGGCC
GCGGCCGCCGCGGAGCTAGCCCCGCTCCTCCCTTCGCTCGCTCCAGCTCCGCCCGGCGAGGGGGCGCGCCGGG
CCAGCGCCACGTACCCGCCAGCAGCCCTCCCGATTGGCGGGCGGGCGGCTATAAAGGGAGGGCGCAGGCGGGC
CCCGGATCTCTTCCGCCGCCATTTTAAATCCAGCTCCATACAACGCTCCGCCGCCGCTGCTGCCCGACCCGGAC
TGCGCGCCAGCACCCCCCTGCCGACAGCTCCGTCAGTATGAGGATATGAACGAGTACAGCAATATAGAGGAATT
CGCAGAGGGATCCAAGATCAACGCGAGCAAGAATCAGCAGGATGACGGTAAATGTTTATTGGAGGCTTGAGCTG
GGATAACAAGCAAAAAAGATCTGACAGAGTACTTGTCTCGATTGGGGAAGTTGTAGACTGCACAATTAACAGAG
TCCAGTCACTGGGAGATCAAGAGGATTTGATTTGTGCTTTTCAAAGATGCTGCTAGTGTGATAAGGTTTTGGA
ACTGAAAGAACACAACTGGATGGCAAAATTGATAGATCCCAAAGGGCCAAAGCTTTAAAAGGGAAGAACCTCC
CAAAAAGGTTTTTGTGGGTGGATTGAGCCCGGATACTTCTGAAGAACAATTAAGAATATTTTGGAGCCTTTGG
AGAGATTGAAATATTGAACCTCCCATGGATACAAAACAAATGAAAGAAGAGGATTTGTTTTATCACATATAC
TGATGAAGAGCCAGTAAAAAATTTGTAGAAAGCAGATACCATCAAATTGGTTCTGGGAAGTGTGAAATCAAAGT
TGCACAACCCAAAGAGGTATATAGGCAGCAACAGCAACAACAAAAGGTGGAAGAGGTGCTGCAGCTGGTGGACG
AGGTGGTACGAGGGGTGCTGGCCGAGGTGAGGGCCAAAACCTGGAACCAAGGATTTAATAACTATTATGATCAAGG
ATATGGAAATTACAATAGTGCCTATGGTGGTATCAAACTATAGTGGCTATGGCGGATATGATTATACTGGGTA
TAACTATGGGAACCTATGGATATGGACAGGGATATGCAGACTACAGTGGCCAACAGAGCACTTATGGCAAGGCATC
TCGAGGGGGTGGCAATCACCAAAACAATTACCAGCCATACTAAAGGAGAACATTGGAGAAAACAGGAGGAGATGT
TAAAGTAACCCATCTTGCAGGACGACATTGAAGATTGGTCTTCTGTTGATCTAAGATGATTATTTGTAAAAGAC
TTTCTAGTGTAACAAGACACCATTGTGTCCAAGTATATAGCTGCCAATTAGTTTTCTTTGTTTTACTTTGTCC
TTTGCTATCTGTGTTATGACTCAATGTGGATTTGTTTATACACATTTTATTTGTATCATTTTATGTTAAACCTCA
AATAAATGCTTCTTATGTGATTGCTTTTCTGCGTCAGGTACTACATAGCTCTGTAAAAAATGTAATTTAAATA
AGCAATAATTAAGGCACAGTTGATTTGTAGAGTATTGGTCCATACAGAGAACTGTGGTCCCTTTATAAATAGCC
AGCCAGCGTCACCCCTTCTCCAATTTGTAGGTGATTTTATGCTCTTAAGGCTTCATCTTCTCCCTGTAAGTGA
GATTTCTACCACACCTTTGAACAATGTTCTTTCCCTTCTGGTTATCTGAAGACTGCTCTGAAAGGAAGACATAAG
TGTTGTGATTAGTAGAAGCTTTGTAATCATAACAATGAGTAATCTTGTATAAAGTTTCAGATACAAAAGGAG
CACTGTAAAACCTGGTAGGAGCTATGGTTTAAAGAGCATTGGAAGTAGTTACAACCAAGGATTTTGGTAGAAAGGT
ATGAGTTTGGTCGAAAAATTAAATAGTGGCAAAATAAGATTTAGTTGTGTTTTCTCAGAGCCGCCACAAGATTG
AACAAAATGTTTTCTGTTTGGGCATCCTGAGGAAGTTGTATTAGCTGTTAATGCTCTGTGAGTTTAGAGAAAAGT
CTTGATAGTAAATCTAGTTTTTGACACAGTGCATGAACTAAGTAGTTAAATATTTACATATTCAGAAAGGAATAG
TGGAAAAGGTATCTTGGTTATGACAAAAGTCATTACAAATGTGACTAAGTCATTACAAATGTGACTGAGTCATTAC
AGTGGACCCCTCTGGGTGCATTGAAAAGAATCCGTTTTATATCCAGGTTTCAGAGGACCTGGAATAATAAAGCT
TTGGATTTTGCATTGAGTGTAGTTGGATTTTGGGACCTTGGCCTCAGTGTATTACTGGGATTGGCATACGTGT
TCACAGGCAGAGTAGTTGATCTCACACAACGGGTGATCTCACAAAACCTGGTAAGTTTCTTATGCTCATGAGCCCT
CCCTTTTTTTTTTTAATTTGGTGCCTGCAACTTTCTTAAACAATGATTCTACTTCTGGGCTATCACATTATAATG
CTCTTGGCCTCTTTTTTGTGCTGTTTTGCTATTCTTAAACTTAGGCCAAGTACCAATGTTGGCTGTTAGAAGGG
ATTCTGTTTATTCAACATGCAACTTTAGGGAATGGAAGTAAGTTCAATTTTAAAGTTGTGTGGTCAAGGTTGCGG
TGTCTAGGGTAGTGAATCCTGTAAGTTCAAATTTATGATTAGGTGACGAGTTGACATTGAGATTGTCTTTTCCC
CTGATCAAAAAATGAATAAAGCCTTTTAAACG

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FIGURE 779

MEVPPRLSHVPPPLFPSAPATLASRSLSHWRPRPPRQLAPLLPSLAPSSARQGARRAQRHVTAQQPSRLAGGAAI
KGGRRRRPDLFRRHFKSSSIQRSAAAAAATRTARQHPPADSSVTMEDMNEYSNIEEFAEGSKINASKNQDDGKM
FIGGLSWDTSKDLTEYLSRFGEVVDCTIKTDPVTGRSRGFGFVLFKDAASVDKVLELKEHKLDGKLIDPKRAKA
LKGKEPPKKVFVGGLSPDTSEEQIKEYFGAFGEIENIELPMDTKTNERRGFCFITYTDEEPVKKLLESRYHQIGS
GKCEIKVAQPKEVYRQQQQQKGGRGAAAGGRGGTRGRGRGQQQNWQGFNNYYDQGYGNYSAYGGDQNYSGYG
GYDYGNYGNYGYGQGYADYSGQQSTYGKASRGGGNHQNNYQPY

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FIGURE 780

CCGCTCTGTCTGCTTCGCCACCTTCTCCCCGAGCACTGCCCGGCCGCCGCC**ATGG**CTAACGTGGCTGACACGAA
GCTGTACGACATCCTGGCGTCCCGCCCGGCCAGCGAGAACGAGCTGAAGAAGGCATACAGAAAGTTAGCCAA
GGAATATCATCCTGATAAGAATCCAAATGCAGGAGACAAATTTAAAGAAATAAGTTTTGCATATGAAGTACTATC
AAATCCTGAGAAGCGTGAGTTATATGACAGATACGGAGAGCAAGGTCTTCGGGAAGGCAGCGCGGAGGTGGTGG
CATGGATGATATTTTCTCTCACATTTTTGTGGGGGATTGTTCCGGCTTCATGGGCAATCAGAGTAGAAGTCGAAA
TGGCAGAAGAAGAGGAGAGGACATGATGCATCCACTCAAAGTATCTTTAGAAGATCTGTATAATGGCAAGACAAC
CAAAC TACAACCTTAGCAAGAATGTGCTCTGTAGTGCATGCAGTGGCCAAGGCGGAAAGTCTGGAGCTGTCCAAAA
GTGTAGTGCTTGTTCGAGGTGAGGTGTGCGCATCATGATCAGACAGCTGGCTCCAGGGATGGTACAACAGATGCA
GTCTGTGTCTCTGATTGTAATGGAGAAGGAGAGGTAATTAATGAAAAAGACCGCTGTAAAAAATGTGAAGGGAA
GAAGGTGATTAAAGAAGTCAAGATTCTTGAAGTCCACGTAGACAAAGGCATGAAACATGGACAGAGAATTACATT
CACTGGGGAGCAGACCAGGCCCCAGGAGTGGAAACCGGAGACATTGTCTTTTGCTACAGGAGAAAGAACATGA
GGTATTTTCAGAGAGATGGGAATGATTTGCACATGACATATAAAATAGGACTTGTGAAGCTCTATGTGGATTTC
GTTACATTTAAGCACCTTGATGGACGTCAGATTGTGGTGAATACCCCCCTGGCAAAGTAATTGAACCAGGGTG
TGTTCTGTGTAGTTTCGAGGTGAAGGGATGCCGCGAGTATCGTAATCCCTTTGAAAAAGGTGATCTTTACATAAAGTT
TGATGTGCAGTTTCTGAAAACAACTGGATCAACCCAGACAAGCTTTCTGAACTAGAAGATCTTCTGCCATCTAG
ACCGGAAGTTCCTAACATAATTGGAGAAACAGAGGAGGTAGAGCTTCAGGAATTTGATAGCACTCGAGGCTCAGG
AGGTGGTCAGAGGCGTGAAGCCTATAATGATAGCTCTGATGAAGAAAGCAGCAGCCATCATGGACCTGGAGTGCA
GTGTGCCCATCAG**TAA**ACTCTGCAAAACAAATTGCACAGGTGGATTTTCTTTCCACATTTGCCTGATTGTTCTCA
GCAATCCAGCTGGAGTGTCTTATCAATCCAGATGAACTGAGGGACATCTGTTGGTCTATGTATAACTTTTAAAA
TTGGTATAGTATCTACAGAGTGTATAATTTAACTAACCACAAAGCTTTACATCTTCATTTTGACTGTTCCATAG
CAAAATAAAGCACTTGAAAGGAAACAAACTCCCTTTCACACATGGATTATTATAAGTTTCAATCCTGGTATCTG
TGCTTGATTTTTATCAGTTTTGTGTAAATTTTTATGTTTCATATTTAAATTTAAATCCCACATTGTAAAGTTTG
TACAATTTGCTCCTGAAGCTTTGTGTTTGGCTGCACCTGCATAAGCTGCTACAAATAAAATAAAAAATTTTCATAGC
CTGTATCTATCATTTAAATGCATGGAAAAAATGGGCTTTGCACACAATGGGTTTGGAGCTGACTGGGAACAATG
GAAAAAATTACATTAGCTGTGGTTGTAAAGTTTTTTGTTTTTGGGTTTTGTTTTTTTTTTGTTTTTTTTTTTT
TTTTTTTACCATTTTGTGAAAGTTTTTGAAGATCGATAATAAAAGCGTTGGTGTAAATTTAAAAA
AA

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FIGURE 781

MANVADTKLYDILGVPPGASENELKKAYRKLAKYHPDKNPNAGDKFKEISFAYEVLSNPEKRELYDRYGEQGLR
EGSGGGGGMDDIFSHIFGGGLFGFMGNQSRSRNGRRRGEDMMHPLKVSLEDLYNGKTTKLQLSKNVLCSSGQG
GKSGAVQKCSACRGRGVRIMIRQLAPGMVQQMQSVCSDCNGEGEVINEKDRCKKCEGKKVIKEVKILEVHVDKGM
KHGQRITFTGEADQAPGVEPGDIVLLLQEKEHEVFQRDGNDLHMTYKIGLVEALCGFQFTFKHLDGRQIVVKYPP
GKVIIEPGCVRVVRGEGMPQYRNPFKGDLYIKFDVQFPENNWINPKLSELEDLLPSRPEVPNIIGETEEVELQE
FDSTRSGGGQRREAYNDSSDEESSHHGPGVQCAHQ

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FIGURE 782

CTCTGAGGAGAAGCAGCAGCAAACATTGCTAGTCAGACAAGTGACAGGGAATGGATTCCAAACAGCAGTGTGTA
AAGCTAAATGATGGCCACTTCATGCCTGTATTGGGATTGGCACCTATGCACCTCCAGAGGTTCCGAGAAGTAAA
GCTTTGGAGGTCACAAAATTAGCAATAGAAGCTGGGTTCCGCCATATAGATTCTGCTCATTATACATAATGAG
GAGCAGGTTGGACTGGCCATCCGAAGCAAGATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCA
AAGCTTTGGTCCACTTTTCATCGACCAGAGTTGGTCCGACCAGCCTTGGAAAACCTCACTGAAAAAGCTCAATTG
GACTATGTTGACCTCTATCTTATTCATTCTCCAATGTCTCTAAAGCCAGGTGAGGAACTTTCACCAACAGATGAA
AATGGAAAAGTAATATTTGACATAGTGGATCTCTGTACCACCTGGGAGGCCATGGAGAAGTGTAAGGATGCAGGA
TTGGCCAAGTCCATTGGGGTGTCAAACCTTCAACCGCAGGCAGCTGGAGATGATCCTCAACAAGCCAGGACTCAAG
TACAAGCCTGTCTGCAACCAGGTAGAATGTCATCCGTATTTCAACCGGAGTAAATTGCTAGATTTCTGCAAGTCG
AAAGATATTGTTCTGGTTGCCTATAGTGCTCTGGGATCTCAACGAGACAAACGATGGGTGGACCCGAACTCCCCG
GTGCTCTTGGAGGACCCAGTCCTTTGTGCCTTGGCAAAAAAGCACAAAGCGAACCCAGCCCTGATTGCCCTGCGC
TACCAGCTGCAGCGTGGGGTTGTGGTCTGGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTT
TTTGAGTTCCAGTTGACTGCAGAGGACATGAAAGCCATAGATGGCCTAGACAGAAATCTCCACTATTTTAAACAGT
GATAGTTTGTCTAGCCACCCTAATTATCCATATTTCAGATGAATATTAACATGGAGAGCTTTGCCTGATGTCTACC
AGAAGCCCTGTGTGTGGATGGTGACGCAGAGGACGTCTCTATGCCGGTGACTGGACATATCACCTCTACTTAAAT
CCGTCTGTTTAGCGACTTCAGTCAACTACAGCTGAGTCCATAGGCCAGAAAGACAATAAATTTTATCATTTTG
AAAT

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FIGURE 783

MDSKQQCVKLNDGHFMPVLGFGTYAPPEVPRSKALEVTKLAIEAGFRHIDSAHLYNNEEQVGLAIRSKIADGSVK
REDIFYTSKLWSTFHRPELVRPALENSLKKAQLDYVDLYLIHSPMSLKPGHEELSPTDENGKVIFDIVDLCTTWEA
MEKCKDAGLAKSIGVSNFNRRQLEMILNKPGLKYKPCNQVECHPYFNRSKLLDFCKSKDIVLVAYSALGSQRDK
RWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTAEDMKAIDGLD
RNLHYFNSDSFASHPNYPYSDEY

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FIGURE 784

GCATCTGCGCAGGCGCCCGGCTCCTAAGTCTACCCAGGAACTGACCCTGCTCTCTCCTTTCCCTGTTAGACATGG
GCACTCCACAGAAGGATGTTATTATCAAGTCAGATGCACCGGACACTTTGTTATTGGAGAAACATGCAGATTATA
TCGCATCCTATGGCTCAAAGAAAGATGATTATGAATACTGTATGTCTGAGTATTTGAGAATGAGTGGCATCTATT
GGGGTCTGACAGTAATGGATCTCATGGGACAACCTTCATCGCATGAATAGAGAAGAGATTCTGGCATTATTAAGT
CTTGCCAAACATGAATGTGGTGAATAAGTGCTAGTATCGGACATGATCCTCATCTTTTATACACTCTTAGTGCTG
TCCAGATTCTTACGCTGTATGACAGTATTAATGTTATTGACGTAAATAAAGTTGTGGAATATGTTAAAGGTCTAC
AGAAAGAAGATGGTTCTTTTGTGGAGATATTTGGGGAGAAATTGACACAAGATTCTCTTTTGTGCGGTGGCAA
CTTTGGCTTTGTTGGGGAAGCTTGATGCTATTAATGTGGAAAAGGCAATCGAATTTGTTTATCCTGTATGAACT
TTGACGGTGGATTTGGTTGCAGACCAGGTTCTGAATCCCATGCTGGGCAGATCTATTGTTGCACAGGATTTCTGG
CTATTACAAGTCAGTTGCATCAAGTAAATTCTGATTTACTTGGCTGGTGGCTTTGTGAACGACAATTACCCTCAG
GCGGGCTCAATGGAAGGCCGAGAAAGTTACCAGATGTATGCTACTCATGGTGGGTCTGGCTTCCCTAAAGATAA
TTGGAAGACTTCATTGGATTGATAGAGAGAACTGCGTAATTTCAATTTTAGCATGTCAAGATGAAGAAACGGGGG
GATTTGCAGACAGGCCAGGAGATAIGGTGGATCCTTTTCATACCTTATTTGGAATTGCTGGATTGTCACTTTGG
GAGAAGAACAGATTAAACCTGTTAATCCTGTCCTTTGTCATGCCTGAAGAAGTGCTTCAGAGAGTGAATGTTACG
CTGAGCTAGTGAGCTAGATTTCATTGAATTGAAAGTTGCATAGTATAGTTTGGCCATTTAACATTTCTGTATTG
AAGTGCTTATCGAATCTAAAAGTGACTACTGTTAATATTTGTATATTGTGTAAATTAATTTAATAAATTATA
TAATTATACATATTGTAAATAAAGACCGGTATTTTATTTCTGCTTTTATTCTGAAGTCCTGTTATTCTGACT
ACAGTTCTTTGTGTATACTTCTGTGCTGTATGTTCAATAACTGAGCTAACATAAAATAACTCTAGGTTTCTAC
TTGATTTTCCCCCATGTATACCTTTTCATCTGTTCTATAGCAAGTTGATGTAAATTGGTTTGTCAACAAGAAATG
TAACTGATGAAAGTGGATAGAACCCATACATGAATTAATGATGCACAAAATAAATGGCTGTTGAAATTTGAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 785

MGTPQKDVIIKSDAPDTLLLEKHADYIASYGSKDDYEYCMSEYLRMSGIYWGLTVMDLMGQLHRMNREEILAFI
KSCQHECGGISASIGHDPHLLYTLSAVQILTLYDSINVIDVNKVVEYVKGLQKEDGSFAGDIWGEIDTRFSFCAV
ATLALLGKLDAINVEKAIEFVLSCMNFDDGGFGCRPGSESHAGQIYCCTGFLAITSQLHQVNSDLLGWWLCERQLP
SGGLNGREEKLPDVCYSWWVLASLKIIGRLHWIDREKLRFILACQDEETGGFADRPGDMVDPFHTLFGIAGLSL
LGEEQIKPVNPVFCMPEEVLQRVNVQPELVS

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FIGURE 786A

GCGGGGACCGCGACGAGCCCGGTGCGCGTTGGCAGCAGCAGCAACACCAGCAGCAGCAGCAGCCCCGGCGG
CGGCGCGGAACCCCGAGCGCCCGGCGCACCCCGCTTCCCGAGCGCGACGCGCGGCGAGCAGCCCCGGTGCGG
CCGCGCGCGCCTTAGGCTCGGCCCGCGGCTCGGGGACCCGACTCCCGGCCAGCGAGCGCTCCCCGGCGCC
GCCCGAGAGCCCGAGGAGGCGCGCCGAGAGCCCGGGGAGGGGGGCGCCACCAGCCCGCGCGGGCATCCTC
AGGAGCCCCAGAGCGCGGAGGGCGCGGCCCGGAGCGGTGCTGGCCCCCGCGGGCTCCCCGGACCTTCCCCAC
CGCTTGGGCCCCGAGGACGCGTGATCGGGCGGGCGCGGGCGCAAGGGTGGGAGGGAGCGCCCCCGCGCGC
CCCCTCGCCCCCTCGCCCCAAACCCTGGGCGCCGGGCGCGGGCGCGCGGCTGAAGCGCCGCGATGCGGAGC
CCGCGCGGCGACGGGCCCGCGGGCGGCGAGCGGAGACGGCCCCAACCTCAACAACAACAACAACAACAAC
AACCACAGCGTGCGCAAGTGCGGCTACCTGCGCAACGAAGAGCATGGCCACAAGCGCTTCTTGTGCTGCGCGGA
CCCGCGCGGGCGGCGACGAGGCGACGGCGGGCGGGGGTGGGCGCGCAACCGCCGCGGCTCGAGTACTACGAG
AGCGAGAAAAAGTGGCGGAGCAAGGCGAGCGCGCGGAAACGGGTGATCGCTCTCGACTGCTGCTGAACATCAAC
AAGCGCGCGGACGCCAAGCACAAGTACCTGATCGCCTCTACACCAAGGACGAGTACTTCGCGGTGGCGCGGAG
AACGAGCAGGAGCAGGAGGGCTGGTACCGCGCGCTCACGCACTGGTCAGCGAGGGCCGCGCGGCCCGCGGAGAC
GCGCCCCCGCGCGCGCGCGCGCGCTCTGAGCGCTCCTGCGCGCGCCCTGGGCGGCTCTGCGGCGCC
GCGGGGCGGAGGACAGCTACGGGCTGGTGGCTCCCGCCACGGCGCGCTACCGTGAGGTGTGGCAGGTGAACCTG
AAGCCCAAGGGTCTGGGCCAGAGCAAGAACCCTGACGGGGGTGTACCGTCTGTGCTGTCTGCGCGCACCATCGGC
TTCGTGAAGCTCAACTGCGAGCAGCGTCGGTGACGTGCGAGTCAATGAACATCCGCCGCTGCGGCCACTCGGAC
AGCTTCTTCTTCATCGAGGTGGGCGCTCGGCCGTACAGGCCCGCGGAGCTGTGGATGCGGCGGAGGACTCG
GTGGTGGCGCAGAACATCCACGAGACCATCCTGGAGGCCATGAAGGCGCTCAAGGAGCTCTTCGAGTTCCGGCCG
CGCAGTAAGAGCCAATCGTCGGGGTCTGCGGCCACGCAACCCATCAGCGTCCCGGCGCGCGCGGCCACCCAC
CTGGTCAACCTGCCCCCAGCCAGACGGGCTGGTGCCTGCTCGCGCACCGACAGCCTGGCGGCCACCCCGCG
GCGGCCAAGTGCGAGCTCGTGCCGGGTGCGCACCGCCAGCGAGGGCGACGGCGGCCGGGCTGCGGGAGCGCGGCC
GCGGCGCAGAGGCTGGTGTGGTGGTGGGAGCCCCCTGAGCCCCGGGCGGTGCGCGCGCCCTGAGCGCTCG
CACACCCTGAGCGGCGGCTGCGGCGGCCGCGGGAGCAAGGTGGCGCTGCTGCCGGCAGGGGGCGCGCTGCAACAC
AGCCGCTCCATGTCCATGCCCGTGGCGCACTCGCGCGCGCGGCCACAGCCCCGGCTCCTGTGCTCCAGCAGC
GGCCACGGCTCGGGCTCCTACCCGCGCGCGCGCGCGCCGACCCGCTCTGCCGATCCGTGCAACACGGCCCC
GGCCAGCGGCCCTCCAGCGGCGAGCGCTCGCCTCGGGTCCCCCAGCGACCCCGGCTTCATGTCCCTGGACGAG
TACGGCTCCAGCCCAGGCGACCTGCGCGCCTTCTGCGAGCACCGAAGCAACACGCCCCGAGTCCATCGCGGAGACG
CCCCCGGCCGAGACGGCGGCGGCGGGGTGAGTTCTACGGGTACATGACCATGGACAGGCCCCCTGAGCCACTGT
GGCCGCTCCTACCGCGGGTCTCGGGGACGCGGCCAGGACCTGGACCGAGGGGCTGCGCAAGAGGACCTACTCC
CTGACCACGCCAGCCCGGCGAGCGGCGGTGCCCCAGCCCTCCTTGCCTCGCTGATGAATACACCCTGATGCGG
GCCACCTTCTCGGGCAGCGCGGGCGCCCTTGCCCGTCTGCCCCGCGTCTCTCCCAAGGTGGCCTACCACCCC
TACCCAGAGGACTACGGAGACATCGAGATCGGCTCCACAGGAGCTCCAGCAGCAACCTGGGGGCGAGCAGCGG
TACATGCCCATGACGCGCGCGCGGCTTCGCGGGCAGTGGGAGCGGCGAGCTGCAGGAGCGAGACTACATGCC
ATGAGCCCCGCGAGCGTGTCCGCCCCAAGCAGATCTTGACGCCAGGGCGCGCGCGCGCGCGCGCGCGCTG
CCTTCTGCGGGGCTGCGGGGCGAGCACCCACCTTGCGGCGGGCAGGACATTCCCGCGGAGCGGGGGCGGCTAC
AAGGCCAGCTCGCCCGCGAGAGCTCCCCGAGGACAGTGGGTACATGCGCATGTGGTGGGTTCCAAGTGTCC
ATGGAGCATGCGAGATGGCAAGCTGCTGCCCCACGGGGACTACCTCAACGTGTCCCCAGCGACGCGGTACCCAG
GGCACCCCGCCGACTTCTTCCGCGAGCCCTGCACCCCGCGGGGAGCCGCTCAGGGGCGTTCCCGGCTGCTGC
TACAGCTCCTTGCCCCGCTCTTACAAGGCCCTTACACCTGTGGCGGGGACAGCGACAGTACGTGCTCATGAGC
TCCCCCGTGGGGCGCATCCTGGAGGAGGAGCTGTGGAGCTCAGGCCACGCCAGGGGCCAGCCAGGCGGCCAGC
GCCTTCGGGGCGGCCCCACGCGAGCCCCCTCACCTGTAGTGCCTTCGCCGTGCGGCGTAGCGGCCCGCGGTCA
GGTTTCTTGGGCCAGCGCGGCGGGCGGTGAGGCCACGCGCTGTCCCTGGAGGGGCTGCCAGCCTGCCAGC
ATGCACGAGTACCCACTGCCACCGGAGCCCAAGAGCCCCGGCGAGTACATCAACATCGACTTTGGCGAGCCCCGG
GCCCGCTGTGCGCGCGCGCGCTCCCCCTGTGGCGTGGCGGCTCGTCTCTCTCGCTCTTGTCCGCCAGCAGC
CCGGCCTCGTGCCTGGGCTCAGGCACCCCGGGCACAGCAGCGACAGCGGCGAGCGGTCTCCGCTCTCCGACTAC
ATGAACCTCGACTTCAGCTCCCCAAGTCTCTAAGCCGGGCGCCCCGAGCGGCCACCCGTTGGGCTCCTTGGAC
GGCTCCTGTCCCCGAGGCCTCCTCCCCGTATCCGCGGTGCCCCCGCGTCCGTCCGCTCCCGCTCGTCTGT

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FIGURE 786B

CTGCAGCCGCCGCCACCGCCGCCGGCCCCGGGGGAGCTGTACCGCCTGCCCCCGCCTCGGCCGTTGCCACCGCC
CAGGGCCCCGGGCGCCGCTCATCGTTGTCTCGGACACCGGGGACAATGGTGACTACACCGAGATGGCTTTTGGT
GTGGCGGCCACCCCGCCGCAACCTATCGCGGCCCCCCGAAGCCAGAAGCTGCCCGCGTGCCAGCCCGACGTCG
GGCGTGAAGAGGCTGAGCCICATGGAGCAGGTGTCTGGGAGTCGAGGCCTTCCTGCAGGCCAGCCAGCCCCGGAC
CCCCACCGCGGGCGCCAAAGGTCATCCGCGCAGACCCGAGGGGGGCCGCCGCCACAGTTCCGAGACCTTCTCC
TCCACCACGACGGTCAACCCCGTGTCCCCGTCTTCGCCCCACAACCCCAAGCGCCACAACCTCGGCCCTCCGTGGAA
AATGTCTCTCTCAGGAAAAGCAGCGAGGGCGGCGTGGGTGTCTGGCCCTGGAGGGGGCGACGAGCCGCCACCTCC
CCACGACAGTTGCAGCCGGCGCCCTTTGGCACCGCAGGGCCGGCGGTGGACCCCGGCTCAGCCCGGGGGCTTG
GTCGGTTGTCTGGGAGCGGTGGATCGCCCATGCGCAGAGAGACCTCTGCCGGCTTCAGAATGGTCTCAACTAC
ATCGCCATCGACGTGAGGGAGGAGCCCGGGCTGCCACCCAGCCGCGACCGCGCCGCCCGCGCTTCTCAGCCG
GGAGACAAGAGCTCCTGGGGCCGGACCCGAAGCCTCGGGGGTCTCATCAGCGCTGTGGGCGTCGGCAGCACCGGC
GGCGGGTGGCGGGGGCGGGTCCCGGTGCCCTGCCCCCTGCCAACCTACGCCAGCATTGACTTCTGTCCCAC
CACTTGAAGGAGGCCACCATCGTGAAGAGTGAAGATCTGTCTGGCTTATCACCAGGATGTACATGTCAGAGA
ATATCATTAAAGAAGACGCTCAGCGCTGTTTACGCCCGAAGCTGCTTGAGTTTCTTTTGATCTGAGCAATG
ACTGTGTTTGGAAACATCTGTGACTCTGATAGATGGGGCACAACAAGGCAAGGTCACCTGCCTCTTTCCCTTGT
TCCCGGATGGGCATTTCATTGTGCTGTTTGCCTTTGTTTTGTTTTGTTTTAACAAAATTAGCTGAAGAAGTT
ATTCTCAAGAAAATTGGATGTTTTTATTGGCCTTCTTAAATTGTGGCCAGTGTCTTTTAAATTTCTTCTTTTCT
CTTTTGGCAAAGCAGATATAACCTCAGCATGCTAGGAGAGTGCACCCGTACCTATGGAAGTGGTAAAACTGGT
ATTTACTGGCTTACACTCAAACGACCACAGTCTTACCTCAGTTCAAGGTAAAGCCGGATTTCGTTGGCGGGGGT
CCACAGGACCTCCTGTAGTAGCCCTGCGCTGTGTCTGAGGCGCTCCTCGCTTATTTAAATGGTCCAGTAG
ACAGCTGCTTGTGGATTCCAGTGCAGGTACCTGCGATGTTTACGTCCACACCGAGCCAGTGTGGGACTGACAT
TTCTCAATGGAAGTGAATTTGGGATTGGACTTTGAAGACGATTACTAAATAATAATTATTATATGTAAGTGAAG
CAACCTACTTTTGAATCAACTGTATTGGGTAGTGGGAGGTGGGAGGGAAGGGCTTTGGGAAGGGGATGAATAT
CTCTTTTACCTTTAACAGACTTGTAACTTCTCGATGTAGATGTTTATGTAGGTACTTCACATTGCAAACGC
CTTTTATTCTATTTACAAGCTCAGATGTCTCTGCTCTCTGAATCTTGGGCATGCCTTCTGTAACCAAAAATCC
CTGTAGGCGTGCTAGCAATTCAGGGTGGTCCGGGTTTGGCAGATTTGATTTTTAAAAATGTATTATCTTTAAT
AAAAATGTTATTATGTCAACAGTGAAGCTGCCCTGAACAAAAAAGCAAAAAGAAAAAAGGAAAGA
AAGAACTGATAAAAAGAGGCATCCAGCCCTATGTTATTGATGGAAAAAGAAAAGAAAAGCAATCTCGCA
GTACATGTTACTTGTGAAAAAATTCGGACAAGACTACCCTTGTTTTATGTTTTTCTGATTTCTGAAAAATACCAG
TGTGTGGCAGTTCTCGCAGATGTTACCTAAAACCTGCTGAACCTTGACCGGCAGAATGTTCTGCCGTTTTCTGCTCC
CTCGACACTTGATTGGAGGGCTGTGACCTCTCCTCCCGTGGGGGCTTCCCAGTGCCTATCTTCTCTGATAGTC
ATGGAGAGGTTACACTAATTCATTGGAGATGTAAGTTGTTGGTTTTGTTTTGTTTTGTTTTAGAAAAATATATA
TAAATATATAATAGATATCTATCGCTATAGAATAATGCATTAATAAAATGAGGCTTTTTTAGAGGAAGACCAAAA
AATTCATGCTTAAAAATATATTTAATGGCAATGCAAAAGTCTTCCCTGCTTCCGTGCTGAACCTTTAGAACAGAG
GATTGTATTGCAAGACAAAGTTGAATGTAAAGTGATCTCCCTGAACATTTTTAAGGTTTTACTTTTCTGAAATTA
TACATCACAGCAGTGCATAGGCCATATAATGTTAGCTGGAAGGTCAATTCAGTGTATGATATACTTTATTAAGA
TGTATAAACATCCTGAAGTTTTTATTTAGTTTTGGGAATAGGCATCAGTGGGTGGTATTGTGTTTTGTAACCTCC
CCCAGGTACGATAGGGACTGAATATGGACCTGCTGAAAGCAGTGTATTGACGCATATTTAACTCGCCCTCTATC
CGTAGAGTAGTCATGACACTATACAGATGGTTTCGTGTTTACTGTCAGCTTAAACAAGCAAAATACACAGATGA
TAATATGCTAAATTTTCTCTATCCTGTACATTTACAAAAAGGCATATGCAATATTTACATTTTAAATTTAGTT
TACAGAAATGGAACCAAAATGTATAAATGTTATGTTTGTAAAACTTACAAATGTATATTGGGTCTTTGTACATTT
TGCCTGACTTACCTTAAATTTAAAAATATTTTTGCTATATAAACTTTAACAGTTATTAAACAGTGTTCCTTTT
GGGTACGTATTGTTTCTGGATATCAAGATGTTAAATATATTTCTTGCTATTGTGATATGACAAGAGACTTAACTT
ATCTTGCTCTGTCTTCCACTGTACACGCTGTATATAGGGGTCAATGTGATGCTGCTGGAGACGAGAATAAACTGG
ACTAGAATAGTGCATTGATTAGTCTGTATTGATCATGGATGCCCTCCTTAATAGCCATATGCAATAAAATAAA
GTACATTATTTATGAAATGAA

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FIGURE 787

MASPPRHGPPGPASGDGPNLNNNNNNNNHNSVRKCGYLRNEEHGKREFFVLRGPGAGGDEATAGGGSAPQPPRLE
YYESEKKWRKAGAPKRVIALDCCLNINKRADAKHKYLIALYTKDEYFAVAAENEQELEGWYRALDLDVSEGRAA
AGDAPFAAAPAASCSASLPGALGGSAGAAGAEDSYGLVAPATAAYREVWQVNLKPKGLGQSKNLTGVYRLCLSAR
TIGFVKLNCEQPSVTILQLMNIRRCGHSDSFFIEVGRSAVTGPGELWMQADDSVVAQNIHETILEAMKALKELFE
FRPRSKSQSSGSSATHFISVPGARRHHHLVNLPPSQTGLVRRSRIDSLAATPPAAKCSSCRVRTASEGDGGRAAG
AAAAAQRLVSVAGSPLSPGPVRAPLSRSHTLSGGCGGRGSKVALLPAGGALQHSRSMMPVAHSPPAATSPGSLS
SSSGHSGSYPPPPGPHPLPHPLHHGPGQRPSSGSASASGSPSDPGFMSLDEYGSSPGDLRAFCSHRSNTPEI
AETPPARDGGGGGEFYGYMTMDRPLSHCGRSYRRVSGDAAQDLDRGLRKRTYSLTTPARQRPVPQPSSASLDEYT
LMRATFSGSAGRLCPSCPASSPKVAYHPYPEDYGDIEIGSHRSSSSNLGADDGYMPMTFGAAFAGSGSGSCRSD
YMPMSPASVSAPKQILQPRAAAAAAVPSAGPAGPAPTSAGRTFPASGGGYKASSPAESSPEDSGYMRMWC
KLSMEHADGKLLPNGDYLVNPSDAVTTGTPDFFSAALHPGGEPLRGVPGCCYSSLPRSYKAPYTCGDSQYV
LMSSPVGRILEERLEPQATPGPSQAASAFGAGPTQPPHPVVPSPVRRSGRRSGFLGQRGRAVRPTRLGLEGLPS
LPSMHEYPLPEPKSPGEYINIDFGEPGARLSPPAPPLLASAASSSSLLSASSPASSLGSGTPTGSSDSRQRP
SDYMNLDFFSPKSPKPGAPSGHPVGSGLDGLLSPEASSPYPLPPRPSASPSSSLQPPPPPPAPGELYRLPPASAV
ATAQGPGAASSLSDTDGNDGYTEMAFGVAATPPQPIAAPPKPEAAARVASPTSGVKRLSLMEQVSGVEAFLQASQ
PPDPHRGAKVIRADPQGGRRRHSSETFSSTTTVTPVSPSAHNPKRHNSASVENVSLRKSSEGGVGVPGGGDEP
PTSPRQLQAPPLAPQGRPWTPGQPGGLVGCPSGGSPMRRETSAGFQNGLYIAIDVREEPGLPPQPQPPPPPL
PQPGDKSSWGRTRSLGGLISAVGVSTGGGCGGPGGALPPANTYASIDFLSHHLKEATIVKE

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FIGURE 788A

GGGTGATTAGCGCCCGGCGAGGCGGAACGGGCCCAAGAGGAGGAGGGGAGAGCCCGTCCGCGCCTGGGCTCCC
GGGTGGCACGAGCCCGCGGCCGAGTGCGAGGCGGAGGCGAGGAGCCGCGGGGACGGGAGGCGAGGCCGGCCG
GGCCCCGAAGCCATGGAGAACGCGCACACCAAGACGGTGGAGGAGGTGCTGGGCCACTTCGGCGTCAACGAGAG
TACGGGGCTGAGCCTGGAACAGGTCAAGAAGCTTAAGGAGAGATGGGGCTCCAACGAGTTACCGGTGAAGAAGG
AAAAACCTTGGCTGGAACTTGTGATTGAGCAGTTTGAAGACTTGCTAGTTAGGATTTATTACTGGCAGCATGTAT
ATCTTTGTTTTGGCTTGGTTTGAAGAAGGTGAAGAAACAATTACAGCCTTTGTAGAACCCTTTGTAAATTTACT
CATATTAGTAGCCAATGCAATTGTGGGTGTATGGCAGGAAAGAAATGCTGAAAATGCCATCGAAGCCCTTAAGGA
ATATGAGCCTGAAATGGGCAAAGTGTATCGACAGGACAGAAAGAGTGTGCAGCGGATTAAAGCTAAAGACATAGT
TCCTGGTGATATTGTAGAAATTGCTGTTGGTGACAAAGTTCCTGCTGATATAAGGTTAACTTCCATCAAATCTAC
CACACTAAGAGTTGACCAGTCAATTCTCAGAGTGAATCTGTCTCTGTATCAAGCACACTGATCCCGTCCCTGA
CCCACGAGCTGTCAACCAAGATAAAAAAGAACATGCTGTTTTCTGGTACAAACATTGCTGCTGGGAAAGCTATGGG
AGTGGTGGTAGCAACTGGAGTTAACACCGAAATTGGCAAGATCCGGGATGAAATGGTGGCAACAGAACAGGAGAG
AACACCCCTTCAGCAAAAACTAGATGAATTTGGGGAACAGCTTTCCAAAGTCATCTCCCTTATTTGCATTGCAGT
CTGGATCATAAATATTGGGCACTTCAATGACCCGGTTCATGGAGGGTCTGGATCAGAGGTGCTATTTACTACTT
TAAATTTGCAGTGGCCCTGGCTGTAGCAGCCATTCTGAAGGTCTGCCTGCAGTCATCACCACCTGCCTGGCTCT
TGGAACCTCGCAGAATGGCAAAGAAAAATGCCATTGTTGCAAGCCTCCCGTCTGTGGAAACCCTTGGTTGTACTTC
TGTTATCTGCTCAGACAAGACTGGTACACTTACAACAAACCAGATGTCAGTCTGCAGGATGTTTATTCTGGACAG
AGTGGAAAGGTGATACTTGTTCCCTTAATGAGTTTACCATAACTGGATCAACTTATGCACCTATTGGAGAAGTGCA
TAAAGATGATAAACCACTGAATTGTACCAAGTATGATGGTCTGGTAGAATTAGCAACAATTTGTGCTCTTTGTAA
TGACTCTGCTTTGGATTACAATGAGGCAAAGGGTGTGTATGAAAAAGTTGGAGAAGCTACAGAGACTGCTCTCAC
TTGCCCTAGTAGAGAAGATGAATGTATTTGATACCGAATTGAAGGGTCTTTCTAAAATAGAACGTGCAATGCCTG
CAACTCAGTCATTAAACAGCTGATGAAAAAGGAATTCACTCTAGAGTTTTCACGTGACAGAAAGTCAATGTCGGT
TTACTGTACACCAATAAACCAAGCAGGACATCAATGAGCAAGATGTTGTGAAGGGTGTCTCTGAAGGTGTCAT
TGACAGGTGCACCCACATTGAGTTGGAAGTACTAAGGTTCTATGACCTCTGGAGTCAAACAGAAGATCATGTC
TGTCATTGAGAGTGGGGTAGTGGCAGCGACACACTGCGATGCTGCGCCCTGGCCACTCATGACAACCCACTGAG
AAGAGAAGAAATGCACCTTGAGGACTCTGCCAATTTATTAATATGAGACCAATCTGACCTTCGTTGGCTGCGT
GGGCATGCTGGATCTCCGAGAATCGAGGTGGCCTCTCCGTGAAGCTGTGCCGGCAAGCAGGCATCCGGGTCT
CATGATCACTGGGGACAACAAGGGCACTGCTGTGGCCATCTGTGCGCGCATCGGCATCTTCGGGCAGGATGAGGA
CGTGACGTCAAAGCTTTCACAGGCCGGGAGTTTGATGAACCTCAACCCCTCCGCCAGCGAGACGCTGCTGAA
CGCCCGCTGTTTTGCTCGAGTTGAACCTCCCAAGTCTAAAATCGTAGAATTTCTTCAGTCTTTTGATGAGAT
TACAGCTATGACTGGCGATGGCGTGAACGATGCTCTGCTCTGAAGAAAGCCGAGATTGGCATTGCTATGGGCTC
TGGCACTGCGGTGGCTAAAACCGCCTCTGAGATGGTCTGGCGGATGACAACCTTCTCCACCATTGTGGCTGCCGT
TGAGGAGGGGCGGGCAATCTACAACAACATGAAACAGTTTCATCCGCTACCTCATCTCGTCCAACGTGCGGGAAGT
TGTCTGTATTTTCTGACAGCAGCCCTTGGATTTCCCGAGGCTTTGATTCTGTTTCACTGCTCTGGGTCAATCT
GGTGACAGATGGCCTGCCCTGCCACTGCACTGGGGTTCAACCCCTCCTGATCTGGACATCATGAATAAACCTCCCCG
GAACCCAAAGGAACCAATTGATCAGCGGTGGCTCTTTTCCGTTACTTGGCTATTGGCTGTTACGTGCGCGCTGC
TACCGTGGGTGCTGCTGCATGGTGGTTTATTGCTGCTGACGGTGGTCCAAGAGTGTCTTCTACCAGCTGAGTCA
TTTCTTACAGTGTAAGAGGACAACCCGGACTTTGAAGGCGTGGATTGTGCAATCTTTGAATCCCCATACCCGAT
GACAATGCGCTCTCTGTTCTAGTAATATAGAAATGTGTAACGCCCTCAACAGCTTGTCCGAAAACCAAGTCTCT
GCTGAGGATGCCCCCTGGGAGAACATCTGGCTCGTGGGCTCCATCTGCCTGTCCATGTCACCTCCACTTCTGAT
CCTCTATGTCGAACCCCTTGCCACTCATCTTCCAGATCACACCGCTGAACGTGACCCAGTGGCTGATGGTGTGAA
AATCTCCTTGCCCGTATTCTCATGGATGAGACGCTCAAGTTTGTGGCCGCAACTACCTGGAACCTGGTAAAGA
GTGTGTGCAGCCTGCCACCAATCCTGCTCGTTCTCGGCATGCACCGATGGGATTTCTGGCCGTTTGTGCTGCT
CATAATGCCCTGGTGATCTGGGTCTATAGCACAGACACTAATTTAGCGATATGTTCTGGTCTTGAAGTACAGT
TTTCCATAAAGAAGATGTTTAACTTAATCAATTAATTTTTTATTGTTTAAAGCAACTGTCTATTTCTGCTGAAT
TTTACATGAACATACTGGCTGGTGTGAGGTTTCACTCTAGATTTTGTGTTTGTCTTTTCTGACTCCAGTGG
GGCAAGATTTTCTTTTTTATACACATAATTAAAGTGTCCATTGACATGTACAGAGAACTAACACTATTTTATGC
AAATATTTTTTTGTAGATGAAAAAGCATGTACAGTGTCTGTTTAACTCATCTCTGTATAAAAAAATAGTTG

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FIGURE 788B

AGCCAGCAGACATTGTCAGCAAATTAATTGGCAGCAGATTTAGGAAATGAATGTGTGTGGTTTTTTTTCTAAAA
CTAAATAGCATGTATTGTGTCTTTTGCATGATGATCCGGATTTAATTGATATCACAGTCTAATTTTTATTCTATA
AGCCAATTTTTCTGCACTGAGCAGAGTCTTGCTACCTCAGTCAGTATTGTTTTGGTTTGCTACTTCCCTCACCCA
CTTTGGCCTCCGTTACCCCCACCCACCCACCTCTCCCCACCTTACCCCCGCCCCGCTTGGCTTCTTCTTTAGG
ATTGTGATGGTTCGTTCTGTTTACATCAGTTTTAACGAGAGGTATGCCTGTACTCGCTTGTGCAGAAAACATTGT
TCCAGATTCAATCGACTGGGTTTATGTCCCTTCACATAGTTTTTAAGGTTATTTATTTAAATGCTAATGTATTT
TATTGTAACAGACATTGTTTTGCCAACATTGCCTATTTTCAGTGGCACGTCATCTAGTTTTAAAAAATAAAACAT
TTTAAAAAG

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FIGURE 789

MENAHKTVEEVLGHFGVNESTGLSLEQVKKLKERWGSNELPAEEGKTLLLELVIEQFEDLLVRILLLAACISFVL
 AWFEEGEETITAFVEPEFVILLILVANAIVGVWQERNAENAIEALKEYEPEMGKVYRQDRKSVQRIKAKDIVPGDI
 VEIAVGDKVPADIRLTSIKSTTLRVDQSILTGESVSVIKHTDPVPDPRAVNQDKKNMLFSGTNIAAGKAMGVVVA
 TGVNTEIGKIRDEMVAEQERTPLQQKLDEFGEQLSKVISLICIAVWIINIGHFNDPVHGGSWIRGAIYYFKIAV
 ALAVAAIPEGLPAVITTCALGTRMAKKNAIVRSLPSVETLGCTSVICSDDKTGTLTTNQMSVCRMFIIDRVEGD
 TCSLNEFTITGSTYAPIGEVHKDDKPVNCHQYDGLVELATICALCNDSDALDYNEAKGVYEKVGEEATETALTCLVE
 KMNVDTELKGLSKIERANACNSVIKQLMKKEFTLEFSRDRKSMSVYCTPNKPSRTSMSKMFVKGAPEGVIDRCT
 HIRVGSTKVPMTSGVKQKIMSVIREWGSSTLRCLALATHDNPLRREEMHLEDNANFIKYETNLTFVGCVGMLD
 PPRIEVASSVKLCRQAGIRVIMITGDNKGTAVAICRRIGIFGQDEDVTSKFTGREFDELNPSAQORDACLNARCF
 ARVEPSHKS KIVEFLQSFDEITAMTGDGVNDAPALKKAEIGIAMSGTAVAKTASEMVLADDNFSTIVA AVEEGR
 AIYNNMKQFIRYLISSNVGEVVCIFLTAALGFPEALIPVQLLWVNLVTDGLPATALGFNPPDLDIMNKPPRNPKE
 PLISGWLFERYLAIGCYVGAATVGAAAWFIAADGGPRVSFYQLSHFLQCKEDNPD FEGVDCAIFESPYPMTMAL
 SVLVTIEMCNALNSLSENQSLRMPPWENIWLVGSIKLSLHFLILYVEPLPLIFQITPLNVTQWLMVLKISLP
 VILMDETLKFVARNYLEPGKECVQPATKSCSFSACTDGISWPFVLLIMPLVIWVYSTDTNFS DMFWS

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FIGURE 790

GGCACGAGGGCTGAGAAGAGTTTTCACGTGGATCGCCGTTTCGGGTGGGCGAGATGGAGACAGCCCCAAGCCGG
GCAAGGATGTCCCGCCCAAGAAAGACAACTTCAGACCAAGAGAAAGAAACCGCGCGATACTGGGAGGAAGAGA
CCGTTCCGACCACAGCCGGAGCCTCTCCAGGGCCTCCTCGTAACAAGAAGAATCGGGAGCTCCGTCTCAGAGAC
CAAAAAATGCTTACATCTTAAAGAAGTCTCGGATCTCTAAGAAGCCTCAGGTCCCGAAGAAACCCGAGAATGGA
AGAACCCGGAGTCCCAGCGCGGCTTGTCGGGGGCCAAGATCCATTCCAGGCCCGCCCCGTCCCTGTGGAAG
TGGTCCAGAAGTTCTGTGCGATTGACAAATCCCGAAAGCTACCACATTCTAAAGCCAAACTCGAAGCCGACTTG
AGGTGGCTGAAGCTGAGGAAGAGGAAACAAGTATCAAAAGCTGAGTCGTTCTGAGCTGCTGCTGAAGAACCTG
GGTTTCTGGAAGGGGAGGATGGGGAAGACACAGCAAAGATATGCCAGGCTGACATTGTGGAGGCTGTGGACATTG
CAAGTGCAGCCAAGCACTTTGACTTGAATCTGCGGCAGTTTGGACCCCTACAGACTAAACTACTCTCGAAGTGGAA
GACACCTGGCTTTTGGAGGGCGCCGAGGTCATGTGGCTGCCCTTGATTGGGTAAACAAAGAAGCTTATGTGCGAGA
TCAACGTGATGGAGGCGGTGCGGACATCCGTTTCTCCATTCTGAGGCACTGCTTGTGTTGCTCAGAACCGCT
GGCTCCACATCTATGACAATCAGGGCATTGAGCTCCACTGTATCCGCCGCTGTGACCGAGTAACACGGCTTGAGT
TCCTGCCCTTCCACTTCCCTCCTGCTACAGCTTCAGAAACAGGGTTTCTAACCTACCTGGATGTGTGAGTGGGA
AGATTGTGGCAGCTCTGAATGCTCGAGCTGGGCGGCTCGATGTTATGAGTCAGAACCCTTACAATGCCGTATCC
ATCTCGGACACAGCAATGGTACTGTGTCTTTATGGAGTCCAGCTATGAAGGAGCCACTGGCAAAGATTCTGTGTC
ATCGTGGTGGGTCCGGGCTGTGGCAGTAGATTCTACAGGCACGTACATGGCCACCTCTGGCCTAGACCACCAGC
TGAAGATCTTTGACTTGCGAGGGACGTACCAGCCTCTGAGCACTCGGACCCTGCCCCATGGAGCAGGGCACCTGG
CCTTCTCCCAGAGGGGACTGCTGTTGGCGGGAATGGGTGACGTTGTCAACATCTGGGCAGGGCAGGGCAAGGCCA
GCCACCCCTCCCTTGAACAGCCCTACCTCACCCACCGGCTCTCAGGCCCTGTGCATGGCCTTCAGTTCTGCCCT
TTGAAGATGTGCTGGGGGTGGGGCACACTGGGGGCATCACCAGCATGCTGGTCCCTGGGGCCGGTGAGCCCACT
TCGATGGCCTGGAGAGTAATCCATACAGAAGCCGGAAGCAGCGCCAGGAGTGGGAGGTGAAGGCCCTGCTAGAGA
AGGTACCTGCAGAGCTTATTTGTCTGGACCCACGAGCCCTGGCCGAGGTGGATGTCATCTCCCTGGAGCAGGGAA
AGAAGGAGCAGATAGAGAGGCTGGGCTATGACCCGAGGCTAAGGCTCCCTTCCAGCCAAAGCCAAAGCAGAAGG
GCCGAGCTCCACGGCAAGCCTGGTGAAGAGGAAGAGGAAGGTGATGGATGAGGAACACAGGGACAAGGTCCGGC
AGAGCCTTCAGCAGCAGCATCATAAGGAGGCGAAGGCCAAGCCACGGGGGCCCGGCCATCTGCCCTGGACAGAT
TTGTGCGCTGAGCCAGACTCCAGGGTTGCCTGGGAACAGTCTCTCCCAAGATCACCTGTAGGGAAATGAGTGTT
CCCTGGAACAAGGAGGTGGGGGAGTGTGGCCCTTCCCCAACTGGGGGTGGACAGCTGTCTCCTGGGGTGGGT
GGTATTAAAGAGGAAAGCGATTTTTTGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 791

METAPKPGKDVPKKDKLQTKRKKPRRYWEEETVPTTAGASPGPPRNKKNRELRPQRPKNAYILKKSRI SKKPQV
PKKPREWKNPESQRLSGAQDPFPGPAPVPVEVVQKFCRIDKSRKLP HSKAKTRSRLEVAEAE EEEETSIKAARSE
LLLAEEP GFLEGEDGTAKICQADIVEAVD IASAAKHFDLNL RQFGPYRLNYSRTGRHLAFGGRRGHVAALDWV
TKKLMCEINVMEAVRDIRFLHSEALLAVAQNRWLHIYDNQGIELHCIRRCDRVTRLEFLPFHFL LATASETGFLT
YLDVSVGKIVAALNARAGRLDVMSQNPYNAV IHLGHSNGTVSLWSPAMKEPLAKILCHRGGVRAVAVDSTGT YMA
TSGLDHQLKIFDLRGTYQPLSTRITLPHGAGHLAF SQRGLLVAGMGDVVNIWAGQGKASPPSLEQPYLTHRLSGPV
HGLQFCPFEDVLGVGHTGGITSM LVPGAGEPNFDGLESNPYRSRKQRQEW EVKALLEKVP AELICLDPRALAEVD
VISLEQGKKEQIERLGYPDQAKAPFQPKPKQKGRSSTASLVKRRKVMDEEHRDKVRQSLQQQHKEAKAKPTGA
RPSALDRFVR

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FIGURE 792

GAGCTAGCTTTGCAATATGGCGGCCGAGGCGGACGGACCGCTTAAACGGCTGCTCGTGCCGATTCTTTTACCTGA
GAAATGCTACGACCAACTTTTCGTTTCAGTGGGACTTGCTTCACGTCCCCCTGCCTCAAGATTCTCCTCAGCAAAGG
CCTGGGGCTGGGCATTGTGGCTGGCTCACTTCTAGTAAAGCTGCCCCAGGTGTTTAAATCCGGGGAGCCAAAGAG
TGCTGAAGGGTTGAGTCTCCAGTCTGTAATGCTGGAGCTAGTGGCATTGACTGGGACCATGGTCTACAGCATCAC
TAACAACCTTCCATTAGCTCTTGGGGTGAAGCCTTATTCCTGATGCTCCAGACGATCACCATCTGCTTCCTGGT
CATGCACTACAGAGGACAGACTGTGAAGGTGTCGCTTTCCTCGCTTGCTACGGCCTGGTCTGCTGGTGCTTCT
CTCACCTCTGACGCCCTTGACTGTAGTCACCCTGCTCCAGGCCTCCAATGTGCCTGCTGTGGTGGTGGGGAGGCT
TCTCCAGGCAGCCACCAACTACCACAACGGGTACACAGGCCAGCTCTCAGCCATCACAGTCTTCCTGCTGTTTGG
GGGCTCCCTGGCCCGAATCTTCACCTCCATTAGGAAACCGGAGATCCCCTGATGGCTGGGACCTTTGTGGTCTC
CTCTCTCTGCAACGGCCTCATCGCCGCCAGCTGCTCTTCTACTGGAATGCAAAGCCTCCCCACAAGCAGAAAAA
GGCGCAGTAGAGCCAGCTACTGGAGTCATTCCGTTTCCACTCATTACCCAACTCAGGGTTCTCCCCATCTGAG
CCAGCCTGCTGGTGTGACTTACTCATCCCTCCATTCTCTGCACTTGACAGCTTTCTGAGCCAGGGTTTTCTTTTA
GTGGAACAAATGGTTGATGGATCCAGATCCTTAGAAAAGGAGAGGATGGGGGTAGAGTCTCCCAAGCCAAAATT
TTGACATTTGAGTGCTTTTCGTAAGCCCTGTACATGTACTATTAATTCAGTCATTAGCCAAAGCCTCCTCCTCTAG
CAGCAATTTCCAGCTGTTTAACTATCCTGGGCAAATGTTTACCCTGTCTCCAGCCTCCCTGCTTCCCTTCT
GGCCCTGGAAGACTGAGTCTGGACGGCAGAGTGGAGGGACTGGGAGGCTGTGGCTGCCTCCCTCCCTCAGCCCGG
CTGGGACTGTCTCCCGGACCCAGTGCTGGGGTGGGGGAAGGGGACGGAGAATGACTCAGGCAGGGCCCCAGGG
TGGGGTGAGGAGGTTCTGCTCTGGCAGGTCTAGGCGGAAGGGAGTGGAGATGGGGCTGGTTGCTGCTGCAGTGA
GGGGAACAGATGGGACAATAAAGACTGGAGACTCAGTTGAATAATGCAAAAAAAAAAAAAA

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FIGURE 793

MAAEADGPLKRLVPIILLPEKCYDQLFVQWDLHVPCLKILLSKGLGLGIVAGSLLVKLPQVFKIRGAESAEGLS
LQSVMLELVALTGTMVYSITNNFPFSSWGEALFLMLQTITICFLVMHYRGQTVKGVAFLACYGLVLLVLLSPLTP
LTVVTLLQASNVPVAVVGRLQAAATNYHNGYTGQLSAITVFLFGGSLARIFTSIQETGDPLMAGTFVVSSLCNG
LIAAQLLFYWNAKPPHKQKKAQ

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FIGURE 794

GGTACGTGCGCTCGCGGTTCTCTCGCGGAGGTGCGCGGTGGCGGGAGCGGGCTCCGGAGAGCCTGAGAGCACGGT
GGGGCGGGGCGGGAGAAAAGTGGCCGCCCGGAGGACGTTGGCGTTTACGTGTGGAAGAGCGGAAGAGTTTGTCTT
TCGTGCGCGCCTTCGAAAAGTGCCTGCCGCTGCTGAGGAGTCCACCCGAAACCTCCCTCCTCCGCCGGCAGCC
CCGCGCTGAGCTCGCCGACCCAAGCCAGCGTGGGCGAGGTGGGAAGTGCGCCCGACCCGCGCCTGGAGCTGCGCC
CCCCAGTGCCCAATGGCTACAAGGGTGTGAGCATGAGCGCCCGCCTGGGACCCGTGCCCCAGCCGCCGGCGCCGC
AGGACGAGCCGGTGTTCGCGCAGCTCAAGCCGGTGTGGGCGCCGGAATCCGGCCCGCGACGCGGCGCTCTTCC
CCGGCGAGGAGCTGAAGCACGCGCACCAACCGCCCGCAGGCGCAGCCCGCGCCCGCGCAGGCCCGCGACCGGGCC
AGCCGCCCGCCACCGGCCCGCGGCTGCCTCCAGAGGACCTGGTCCAGACAAGATGTGAAATGGAGAAGTATCTGA
CACCTCAGCTTCTCCAGTTCTTATAATTCCAGAGCATAAAAAGTATAGACGAGACAGTGCCTCAGTCGTAGACC
AGTTCTTCACTGACACTGAAGGGTTACCTTACAGTATCAACATGAACGTCCTTCTCCCTGACATCACTCACCTGA
GAACTGGCCTCTACAAATCCAGAGACCGTGCCTAACACACATCAAGACAGAACCTGTTGCCATTTTCAGCCACC
AGAGTGAAACGACTGCCCTCCTCCGGCCCGACCCAGGCCCTCCCTGAGTTCACCACTATATTACAGCTCACACC
AGACCGCAGCTCCAGAGGTGAACAATATTTTCATCAAAACAAGAACTTCTACACCAGATCTTCATCTTTCTGTCC
CTACCCAGCAGGGCCACCTGTACCACTACTGAATACACCGGATCTAGATATGCCAGTTCTACAAATCAGACAG
CAGCAATGGACACTCTTAATGTTTCTATGTGAGCTGCCATGGCAGGCCTTAACACACACACCTCTGCTGTTCCGC
AGACTGCAGTGAACAATTCAGGGCATGCCCCCTTGACATACACAATGCCAAGTCAGTTTCTTCCACAACAGG
CCACTTACTTTCCCCCGTACCACCAAGCTCAGAGCCTGGAAGTCCAGATAGACAAGCAGAGATGCTCCAGAATT
TAACCCACCTCCATCCTATGCTGTACAATTGCTTCTAACTGGCAATTCACAATCCAAATTTACCCACCACCC
TGCCAGTTAACTCACAAAACATCCAACCTGTGAGATACAATAGAAGGAGTAACCCCGATTGGAGAAACGACGCA
TCCACTACTGCGATTACCTGGTTGCACAAAAGTTTATACCAAGTCTTCTCATTAAAAAGCTCACCTGAGGACTC
ACACTGGTGAAGGCCATACAAGTGTACCTGGGAAGGCTGCGACTGGAGGTTCCGCGCATCGGATGAGCTGACCC
GCCACTACCGGAAGCACACAGGCGCCAAGCCCTTCCAGTGCGGGGTGTGCAACCGCAGCTTCTCGCGCTCTGACC
ACCTGGCCCTGCATATGAAGAGGCACCAGAAGTGAGCACTGCCCGTGTGACCCGTTCCAGGTCCCTGGGCTCCC
TCAAATGACAGACCTAACTATTCTGTGTAACAAACAACAAAAACAAAAACAAAGAAACCACAACATAAAC
TGGAATGTATATTTTGTATATTTGAGAAAACAGGAATACATTGTATTAATACCAAAGTGTTTGGTCATTTTAA
GAATCTGGAATGCTTGCTGTATATGCTTTTACTCAAGCAGATCTCATCTCATCTCATGACAGGCAGCCAG
TCTCAACATGGGTAAGGGGTGGGGGTGAAGGGGAGTGTGTGACGCTTTTACCTAGGCACCATCATTTAATGTG
ACAGTGTTCAGTAAACAAATCAGTTGGCAGGCACCAGAAGAAGATGGATTGTATGTCAAGATTTTACTTGGCAT
TGAGTAGTTTTTTTTCAATAGTAGGTAATTCCTTAGAGATACAGTATACCTGGCAATTCACAAATAGCCATTGAAC
AAATGTGTGGGTTTTTAAAAATTATATACATATATGAGTTGCCTATATTTGCTATTCAAAATTTTGTAAATATGC
AAATCAGCTTTTATAGGTTTATTACAAGTTTTTTAGGATTCTTTTGGGGAAGAGTCATAATTCTTTGAAAAAAC
CATGAATACACTTACAGTTAGGATTTGTGGTAAGGTACCTCTCAACATTACCAAAATCATTTCTTTAGAGGGAAG
GAATAATCATTCAAATGAACTTTAAAAAGCAAATTCATGCACTGATTAAATAGGATTATTTTAAATACAAAA
GGCATTTTATATGAATTATAAAGTGAAGAGCTTAAAGATAGTTACAAAAATACAAAAGTTCAACCTCTTACAATAA
GCTAAACGCAATGTCAATTTTAAAAAGAGGACTTAGGGGTGCTTTTCACATATGACAATGTTGCATTTATGATG
CAGTTTTCAAGTACCAAAACGTTGAATTGATGATGAGTTTTTCATATATCGAGATGTTGCTCGTGCAGTACTGT
TGGTTAAATGACAATTTATGTGGATTTTGCATGTAATACACAGTGAGACACAGTAATTTTATCTAAATTACAGTG
CAGTTTAGTTAATCTATTAATACTGACTCAGTGTCTGCCTTTAAATATAAATGATATGTTGAAAACCTTAAGGAAG
CAAATGCTACATATATGCAATATAAAATAGTAATGTGATGCTGATGCTGTTAACCAAGGGCAGAATAAATAAGC
AAAATGCCAAAAGGGGCTTAATTGAAATGAAAATTTAATTTTGTGTTTTTAAATATTGTTTATCTTTATTTATTT
TGTGGTAATATAGTAAGTTTTTTTGAAGACAATTTTCATAACTTGATAAATTATAGTTTTGTTTGTAGAAAAG
TTGCTCTTAAAGATGTAAATAGATGACAAACGATGTAAATAATTTGTAAGAGGCTTCAAAATGTTTATACGTG
GAAACACACCTACATGAAAAGCAGAAATCGGTTGCTGTTTTGCTTCTTTTCCCTCTTATTTTGTATTGTGGTC
ATTTCTATGCAATAATGGAGCAACAGCTGTATAGTTGTAGAAATTTTGTAGAGAATGAGATGTTTATATATT
AACGACAATTTTTTTTTTGGAAAATAAAAAGTGCCTAAAGAAAAA

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FIGURE 795

MATRVLSMSARLGVPVQPPAPQDEPVFAQLKPVLGAAANPARDAALFPGEELKHAHRPQAQAPAPAQAPQPAQPPA
TGPRLPPEDLVQTRCEMEKYLTQQLPPVPIIPEHKKYRRDSASVVDQFFTDTEGLPYSINMNVFLPDITHLRTGL
YKSQRPCVTHIKTEPVAFSHQSETTAPPPAPTQALPEFTSIFSSHQTAAPEVNNIFIKQELPTPDLHLSVPTQQ
GHLYQLLNTPDLDMPSSSTNQTAAMDITLVSMSAAMAGLNTHTSAVPQTAVKQFQGMPPCTYTMP SQFLPQQATYF
PPSPPSSEPGSPDRQAEMLQNLTPPPSYAATIASKLAIHNPNLPTTLPVNSQNIQPVRYNRRSNPDLEKRRIHYC
DYPGCTKVYTKSSHLKAHLRTHTGKPYKCTWEGCDWRFARSDELTRHYRKHTGAKPFQCGVCNRSFSRSDHLAL
HMKRHQN

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FIGURE 796

CGTTTTCCGCTCCTCGCTACGTATCGTTGTGAGCCCGCTATCAGCGGCCAGCGCGGGCGGGCCGGAGACCGTG
GGGCCCCCGGTTGCCGCCCCCTCGGGAGCCACCATGTTGGTGATACCCCCCGGACTGAGCGAGGAAGAGGAGGCT
CTGCAGAAGAAATTCAACAAGCTCAAGAAAAAGAAAAAGGCATTGCTGGCTCTGAAGAAGCAAAGTAGCAGCAGC
ACAACCAGCCAAAGTGGTGTCAAACGCTCACTATCAGAGCAGCCTGTCATGGACACAGCCACAGCAACAGAGCAG
GCAAAGCAGCTGGTGAAGTCAGGAGCCATCAGTGCCATCAAGGCTGAGACCAAGAAGCTCAGGCTTCAAGCGTTCT
CGAACCCCTTGAGGGGAAGTTAAAGGACCCCGAGAAGGGACCAGTCCCCACTTTCCAGCCGTTCCAGAGGAGCATA
TCTGCTGATGATGACCTGCAAGAGTCATCCAGACGTCCCCAGAGGAAATCTCTGTATGAGAGCTTTGTGTCTTCT
AGTGATCGACTTCGAGAAGTACGAGCCAGATGGAGAAGAGGCAGAGGGCCAGGGGCTGGTGATGGTCCCCCTCGA
AGCTTTGACTGGGGCTATGAAGAACGCAGTGGTGCCCACTCCTCAGCCTCCCCCTCCCCGAAGCCGCAGCCGGGAC
CGCAGCCATGAGAGGAACCGGGACAGAGACCGAGATCGGGAGCGGGATCGAGACCGGGATCGAGACAGAGACAGA
GAGCGGGACAGGGATCGGGATCGGGATCGAGATCGAGACCGGGAACGGGACAGGGATCGGGAGCGGGATCGAGAC
CGAGACCGAGAGGGTCCTTTCCGCAGGTGGGATTCATTCCCTGAACGGCGAGCCCCTAGGAAAGGGAATACTCTC
TATGTATATGGAGAAGACATGACACCCACCCTTCTCCGTGGGGCCTTCTCTCCTTTTGAAACATCATTGACCTC
TCCATGGACCCACCCAGAACTGTGCCTTCGTACCTATGAAAAGATGGAGTCAGCAGATCAGGCCGTTGCTGAG
CTCAACGGGACCCAGGTGGAGTCTGTACAGCTCAAAGTCAACATAGCCCGAAAACAGCCCATGCTGGATGCCGCT
ACTGGCAAGTCTGTCTGGGGCTCCCTCGCTGTCCAGAACAGCCCTAAGGGTTGCCACCGGGACAAGAGGACCCAG
ATTGTCTACAGTGATGACGTCTACAAGGAAAACCTTGTGGATGGCTTCTAGGGAACAGAGCTGGATTCTTGTGC
CTCATATGCCCCAATGCTGGTCTCAGTAAACACTGAGGTGGAAGCTTACACATCTCCCTCAGCCTCTGGTTTTT
CAGCACTTGGGATTGGGGTTAAGCCTTTAAAAACGGCTGTGAGGTTTGATCTCAGTGAACGACATGGCCAGTGC
CTGTTCCCCACTCCCTTGCCCCAAAAGGATCTGGAACAC

FIGURE 797

MLVIPPGLSEEEALQKKFNKLKKKKKALLALKKQSSSTTSQGGVKRSLSEQPVMdTATATEQAKQLVKSGAIS
AIKAETKNSGFKRSRTLEGKLDPEKGPVTFQPFQRSISADDDLQESSRRPQRKSLYESFVSSSDRLRELGPDG
EEAEGPGAGDGPPRSFDWGYEERSGAHSSASPPRSRSDRSHERNRDRDRDRERDRDRDRDRDRERDRDRDRDR
RDRERDRDRERDRDRDREGPFRSDSFPERRAPRKNTLYVYGEDMTPTLLRGAFSPFGNIIDLSMDPPRNCAFV
TYEKMESADQAVAEI NGTQVESVQLKVN IARKQPM LDAATGKSVWGS LAVQNSPKGCHRDKRTQIVYSDDVYKEN
LVDGF

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FIGURE 798

GTCAATGCAGTGCGCCGGAGAACTGTGCTCTTTGAGGCCGACGCTAGGGGCCCCGGAAGGAAACTGCGAGGCGAAGG
TGACCGGGGACCGAGCATTTTCAGATCTGCTCGGTAGACCTGGTGCACCACCACCATGTTGGCTGCAAGGCTGGTG
TGCTCTCCGGACACTACCTTCTAGGGTTTTCCACCAGCTTTTACCAAGGCCTCCCCGTGTTGTGAAGAATTCCATC
ACGAAGAATCAATGGCTGTTAACACCTAGCAGGGAATATGCCACCAAAACAAGAATTGGGATCCGGCGTGGGAGA
ACTGGCCAAGAAGCTCAAAGAGGCAGCATTGGAACCATCGATGGAAAAAATATTTAAAAATTGATCAGATGGGAAGA
TGGTTTGTGCTGGAGGGGCTGCTGTTGGTCTTGAGCATTGTGCTACTATGGCTTGGGACTGTCTAATGAGATT
GGAGCTATTGAAAAGGCTGTAATTGGCCTCAGTATGTCAAGGATAGAATTCATTCCACCTATATGTACTTAGCA
GGGAGTATTGGTTTAACAGCTTTGTCTGCCATAGCAATCAGCAGAACGCCTGTTCTCATGAACCTCATGATGAGA
GGCTCTTGGGTGACAATTGGTGTGACCTTTGCAGCCATGGTTGGAGCTGGAATGCTGGTACGATCAATACCATAT
GACCAGAGCCCAGGCCCAAAGCATCTTGCTTGGTTGCTACATTCTGGTGTGATGGGTGCAGTGGTGGCTCCTCTG
ACAATATTAGGGGGTCTCTTCTCATCAGAGCTGCATGGTACACAGCTGGCATTGTGGGAGGCCTCTCCACTGTG
GCCATGTGTGCGCCAGTGAAAAGTTTCTGAACATGGGTGCACCCCTGGGAGTGGGCCTGGGTCTCGTCTTTGTG
TCCTCATTGGGATCTATGTTTCTCCACCTACCACCGTGGCTGGTGCCACTCTTTACTCAGTGGCAATGTACGGT
GGATTAGTTCTTTTCAGCATGTTCTTCTGTATGATACCCAGAAAGTATCAAGCGTGCAGAAGTATCACCAATGT
ATGGAGTTCAAATAATGATCCCATTAACCTCGATGCTGAGTATCTACATGGATACATTAAATATATTTATGCGAG
TTGCAACTATGCTGGCAACTGGAGGCAACAGAAAGAAATGAAGTGACTCAGCTTCTGGCTTCTCTGCTACATCAA
ATATCTTGTTTAAATGGGGCAGATATGCATTAAATAGTTTGTACAAGCAGCTTTCGTTGAAGTTTAGAAGATAAGA
AACATGTCATCATATTTAAATGTTCCGGTAATGTGATGCCTCAGGTCTGCCTTTTTTCTGGAGAATAAATGCAG
TAATCCTCTCCCAAATAAGCACACACATTTTCAATTCTCATGTTTGAGTGATTTTAAATGTTTTGGTGAATGTG
AAAATAAGTTTGTGTCATGAGAATGTAAGTCTTTTTTCTACTTTAAATTTAGTAGGTTCACTGAGTAACTAA
AATTTAGCAAACCTGTGTTTGCATATTTTTTGGAGTGCAGAATATTGTAATTAATGCATAAGTGATTGGAGC
TTTGGTAAAGGGACCAGAGAGAAGGAGTCACCTGCAGTCTTTTGTTTTTTAAATACTTAGAACTTAGCACTTGT
GTTATTGATTAGTGAGGAGCCAGTAAGAAACATCTGGGTATTTGGAAACAAGTGGTCATTGTTACATTCTCTGC
TGAACCTAACAAAAGCTTTCATCCTGAAACAGGCACAGGTGATGCATTCTCTGCTGTTGCTTCTCAGTGCTCTC
TTTCCAATATAGATGTGGTCATGTTTGACTTGTACAGAATGTTAATCATACAGAGAATCCTTGATGGAATTATAT
ATGTGTGTTTTACTTTTGAATGTTACAAAAGGAAATACTTTAAACTATTCTCAAGAGAAAATATTCAAAGCAT
GAAATATGTTGCTTTTTCCAGAATACAAACAGTATACCTCATGAATTGCTAAGTGTTTTTTATTTTTGCATATTT
ATTGAAGTGTCTAATTGAATACAGCTTGCTCTTGTACCTCTTCAAGCTTTCAAGCCTTTATAGAAAAGCTTCTT
TGTGGCTTACACTGGAAATTATGAAAGCAGTTTTTCTCCTAAGACTTTTGGTTTCTCGCATTGCCTCTCAGACTA
AGCACTAAAAAGCAAAGCAAACAGAACTAGTTCTGTCTTAATGAAATATATCAACCCAAAAGTGTAATGAGGAA
AATGCTTCATTAGTTTCCCCTAGCAGACTTTTACTTCTTACACTGCTACACCATTACTTTCTTGAGACATTTG
TAAGTCCTTTGATACAGAAGAGTTATATTTAGGAGGCTTTAATGAAGG

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FIGURE 799

MLAARLVCLRTLPSRVFHPAFTKASPVVKNSITKNQWLLTPSREYATKTRIGIRRGRTGQELKEAALEPSMEKIF
KIDQMGRWFVAGGAAVGLGALCYGLGLSNEIGAIEKAVIWPQYVKDRIHSTYMYLAGSIGLTALSAIAISRTPV
LMNFMMRGSWVTIGVTFAAMVGAGMLVRSIPYDQSPGPKHLAWLLHSGVMGAVVAPLTLGGPLLIRAAWYTAGI
VGGLSTVAMCAPSEKFLNMGAPLGVGLGLVFVSSLGSMFLPPTTVAGATLYSVAMYGGLVLFSMFLLYDTQKVSS
VQKYHQCMFEKNMIPLTRC

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FIGURE 800

ATGCGTGAGTGCATCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGCCTGCTGGGAGCTCTACTGC
CTGGAACACGGCATCCAGCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGAGATGATTCCCTTCAAC
ACCTTCCTCAGTGAAACGGGTGCTGGCAAGCATGTGCCCCGGGCAGTGTGTTGTAGACTTGGAAACCCACAGTCATT
GATGAAGTTCGCACTGGCACTTACCGCCAGCTCTTCCACCCTGAGCAACTCATCACAGGCAAGGAAGATGCTGCC
AATAACTATGCCCGAGGGCACTACACCATTGGCAAGGAGATCATTGACCTCGTGTTGGACCGAATTGCAAGCTG
GCTGACCAGTGACCGGTCTTCAGGGCTTCTTGGTTTTCCACAGCTTTGGTGGGGGAAC TGGTTCTGGGTTCAAC
TCGCTGCTCATGGAACGTCCTCAGTTGATTATGGCAAGAAGTCCAAGCTGGAGTTCTCCATTTACCCGGCGCCC
CAGGTTTTCCACAGCTGTAGTTGAGCCCTACAACCTCCATCCTCACCACCCACACCACCCTGGAGCACTCTGATTGT
GCCTTCATGGTAGACAATGAGGCCATCTATGACATCTGTGCTAGAAACCTCGATATCGAGCGCCCAACCTACACT
AACCTTAACCGCCTTATTAGCCAGATTGTGTCTCCATCACTGCTTCCCTGAGATTTGATGGAGCCCTGAATGTT
GACCTGACAGAATTCCAGACCAACCTGGTGCCCTACCCCGCATCCACTTCCCTCTGGCCACATATGCCCTGTG
ATCTCTGCTGAGAAAGCCTACCATGAACAGCTTACTGTAGCAGAGATCACCAATGCTTGCTTTGAGCCAGCCAAC
CAGATGGTGAAATGTGACCCTCGCCATGGTAAATACATGGCTTGCTGCCTGTTATACCGTGGTGACGTGGTTCCC
AAAGATGTCAATGCTGCCATTGCCACCATCAAAACCAAGCGTACCATCCAGTTTGTGGATTGGTGCCCCACTGGC
TTCAAGGTTGGCATTAAATTACCAGCCTCCCACTGTGGTGCCTGGCGGAGACCTGGCCAAGGTACAGAGAGCTGTG
TGCATGCTGAGCAATACCACAGCTGTTGCCGAGGCCTGGGCTCGCCTGGACCACAAGTTTGACCTGATGTATGCC
AAGCGTGCCCTTTGTTCACTGGTACGTGGGTGAGGGGATGGAGGAAGCGAGTTTTCAGAGGCCCGTGAGGACATG
GCTGCCCTTGAGAAGGATTATGAGGAGGTTGGAGCAGATAGTGCTGACGGAGAGGATGAGGGTGAAGAGTATTTAA

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FIGURE 801

MRECISIHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKHVPRAVFVDLEPTVI
DEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIKRLADQCTGLQGFLVFHSFGGGTSGFT
SLLMERLSVDYGKKSLEFSIYPAPQVSTAVVEPYNSILTHTTLEHSDCAFMDNEAIYDICRRNLDIERPTYT
NLNRLISQIVSSITASLRFDGALNVDLTFQTNLVPYPRIHFPLATYAPVISA EKAYHEQLTVAEITNACFEPAN
QMVKCDPRHGKYMACECLLYRGDVVPKDVNAAIATIKTKRTIQFVDWCPTGFKVGINYQPPTVVPGGDLAKVQRAV
CMLSNTTAVAEAWARLDHKFDL MYAKRA FVHWYVGE GMEEGEFSEAREDMAALEKDYE EVGADSADGEDEGE EY

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FIGURE 802

GGGGCTACCGCGCCTTTGCTTCCTGGCGCACGCGGAGCCTCCTGGAGCCTGCCACCATCCTGCCTACTACGTGCT
GCCTTGCGCCCGCAGCCATGTGCCGCACCCTGGCCGCCCTTCCCCACCACCTGCCTGGAGAGAGCCAAAGAGTTCA
AGACACGTCTGGGGATCTTTCTTCAAAATCAGAGCTGGGCTGCGATACTGGGAGTACTGGCAAGTCCGAGTGGG
GCAGTAAACACAGCAAAGAGAATAGAACTTTCTCAGAAGATGTGCTGGGGTGGAGAGAGTCTGTTCCAGCTGCTGC
TGAGCAGTAAAAATGGAGTGGCTGCCTTCCACGCTTTCCTGAAGACAGAGTTCAGTGAGGAGAACCTGGAGTTCT
GGCTGGCCTGTGAGGAGTTCAAGAAGATCCGATCAGCTACCAAGCTGGCCTCCAGGGCACACCAGATCTTTGAGG
AGTTCAATTTGCAGTGAGGCCCCATAAGAGGTCAACATTGACCATGAGACCCGCGAGCTGACGAGGATGAACCTGC
AGACTGCCACAGCCACATGCTTTGATGCGGCTCAGGGGAAGACACGTACCCTGATGGAGAAGGACTCCTACCCAC
GCTTCCTGAAGTCGCTTACCGGGACCTGGCTGCCAAGCCTCAGCCGCTCTGCCACTCTGTCCAGCTGCA
GCCTGGACGAGCCCTCACACACCTTGAGTCTCCACGGCAGTGAGGAAGCCAGCCGGGAAGAGAGGTTGAGTCACCC
ATCCCCGAGGTGGCTGCCCTGTGTGGGAGGCAGGTTCTGCAAAGCAAGTGCAAGAGGACAAAAA
AAAAAATGCGCTCCAGCAGCCTGTTTGGGAAGCAGCAGTCTCTCCTTCAGATACTGTGGGACTCATGCTG
GAGAGGAGCCGCCACTTCCAGGACCTGTGAATAAGGGCTAATGATGAGGGTTGGTGGGGCTCTCTGTGGGGCAA
AAAGGTGGTATGGGGTTAGCACTGGCTCTCGTTCTCACCGGAGAAGGAAGTGTCTAGTGTGGTTTAGGAAACA
TGTGGATAAAGGGAACCATGAAAATGAGAGGAGGAAGACATCCAGATCAGCTGTTTTGCCTGTTGCTCAGTTGA
CTCTGATTGCATCTGTTTTCTAATTCACAGACTGTTCTGGGCACGGAAGGGACCCTGGATGTGGAGTCTTCCC
CTTTGGCCCTCCTCAGTGGCCTCTGGGCTAGCCAGAGTCCCTTAGCTGTACCTCGTAACACTCCTGTGTGTCT
GTCCAGCCTTGCACTCATGTCAAGGCCAGCAAGCTGATGTGACTCTTGCCCCATGCGAGATATTTATACCTCAA
CACTGGCCTGTGAGCCCTTTCCAAGTCAGTGGAGAGCCCTGAAAGGAGGCTCACTTGAATCCAGCTCAGTGCTCT
GGGTGGCCCCCTGCAGGTGGCCCCGTGACCCTGCGTTGCAGCAGGGTCCACCTGTGAGCAGGCCCGCCCTGGGGCC
TCTTCCTGGATGTGCCCTCTCTGAGTTCTGTGCTGTCTCTGGAGGCAGGGCCAGGAGAACAAAGTGTGGAGGC
CTCGGGGAGTGGCTTTTCCAGCTCTCATGCCCCGAGTGTGGAACAAGGCAGAAAAGGATCCTAGGAAATAAGTC
TCTTGGCGGTCCCTGAGAGTCTCTGCTGAAATCCAGCCAGTGTTTTTTGTGGTATGAGAACAGGCAAAAAGAGATG
CCCCGAGATAGAAGGGGAGCCTTGTGTTCTTTCTGCAGACGTGAGATGAACACTGGAGTGGGCAGAGGTGGCM
CAGGACCATGGCACCTTAGAGTGAGAAGCTGGGGGAGAGGCTGCTTGAAGGGCAGGACTGGGGATACCTGC
CTGTCACCTCAGGGCATCACTGAACAAACATTTCTGATGSSAACTCCTGCGGCAGAGCCCAGGCTGGGGAAGTG
AACTACCCAGGGCAGCCCCCTTGTGGCCAGGATAATCAACACTGTTCTCTGTACCATGAGCTCCTCCAGGAG
ATTATTTAAGTGTATTGTATCATTGGTTTTCTGTGATTGTACATAACATTGTTTTTGTATTGTTGGTGTCTGTGT
TATTTATTATTGTAATTTAGTTTGCCTCTACTGGAGAATCTCAGCAGGGGTTTCAGCCTGACTGTCTCCCTTC
TCTACCAGACTCTACCTCTGAATGTGCTGGGAACCTCTTGAGCCTGTGAGGAACCTCCTACTGTTTAAATATTT
ATTTATTGTGACAAATGGAGCTGGTTTCTAGATATGAATGATGTTTGCAATCCCCATTTTCTGTTTCAGCATG
TTATATTCTTATAAAATAAAAGCAAAAGTCAAATATGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 803

MCRTLAAFPPTCLERAKEFKTRLGIFLHKSELGCDTGSTGKSEWGSKHSKENRNFSEDVLGWRESFDLLLSSKNG
VAAFHAFKTEFSEENLEFWLACEEFKKIRSATKLASRAHQIFEEFICSEAPKEVNIDHETRELTRMNLQTATAT
CFDAAQGKTRILMEKDSYPRFLKSPAYRDLAAQASAASATLSSCSLDEPSHT

GGATCCGCGCGGCACACGTCGACGACGGCCGTGATGAAGTTTCGCTTACCGGTTTTCAATTTGCTGGGTACCGGTGTA
CCGGCGTGGGAACCTAAATTTTACCTGCAATGGAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCACTGTATT
TGACCTTAAAAACAACAAATCTGACACGCTGCCCTGGCCACTCGGTACAACGTCAAGTGCCTGGGGCTGTCCCC
GGATGGCCGCTCGCTATCATCGTCGATGAAGGGGGCGATGCGCTGCTGGTCAGCCTGGTCTGCAGGTCTGTGCT
GCACCACCTTCCACTTCAAGGGCTCTGTGCACAGTGTGCTTCTCCCTGATGGCAGGAAGTTTGTGTGACAAA
GGGTAACATTGCCCAGATGTATCATGCCCTGGGAAGAAGCGGGAGTTCAACGCCTTCGTTCTGGACAAGACCTA
TTTTGGGCCCTACGATGAGACCACCTGCATCGACTGGACGGATGACTCCAGGTGCTTTGTGGTTGGGAGCAAAGA
CATGTCCACCTGGGTGTTTCGGAGCCGAGCGCTGGGACAACCTCATCTACTATGCAGTGGGGGGACATAAGGATGC
CATCGTGGCCTGCTTCTTTGAATCCAACAGCCTGGACCTGTACTCACTCAGCCAGGACGGAGTGTCTGTGCATGTG
GCAGTGTGACACGCCCCCGAGGGCTTGGCGCTGAAGCCCCCTGCGGGCTGAAAGCAGACCTGTTGCAGCGGGA
GGAGGAAGAGGAGGAGGAGGAGGACCAGGAGGGCGACAGAGAGACCACCATCCGGGGAAAAGCCACTCCGGCCGA
GGAGGAGAAGACAGGAAAAGTGAAGTACTCACGGCTGGCCAAGTACTTCTTCAATAAAGAAGGGGATTTTAACAA
CCTGACAGCTGCAGCATTTTCAAGAAGTCTCACCTCTTGGTCACTGGCTTTGCTTCTGGAATCTTCCATCTTCA
TGAGCTGCCAGAGTTTAACTCATCCACTCCCTGAGCATCTCAGATCAGAGCATCGCCTCAGTGGCCATCAATAG
CTCGGGGGACTGGATTGCTTTTGGCTGTTAGGCCTGGGCCAGCTGCTGGTGTGGGAGTGGCAGAGTGAGTCTTA
CGTGCTCAAGCAGCAGGGCCACTTCAACAGCATGGTGGCCCTGGCCTACTCGCCCCGACGACAGTACATCGTGAC
TGGCGGGGACGACGGCAAGGTCAAGGTGTGGAATACCCTCAGCGGCTTCTGCTTCGTCACTTTTACGGAGCACTC
CAGCGGGGTGACCGGTGTGACCTTTACTGCCACCGGCTACGTTGTGGTGACCTCATCCATGGACGGGACCGTGCG
AGCCTTTGACCTTCACAGGTACCGAACTTCCGCACCTTCACTCTCCACGCCCCACCCAGTTCTCCTGTGTGGC
GGTGGATGCGAGCGGTGAGATCGTCTCTGCAGGGGCGCAGGACTCCTTTGAGATTTTCGTGTGGTCCATGCAGAC
AGGCAGGCTCCTTGATGTTTTGTCTGGACACGAAGGGCCCATCAGTGGTCTGTGTTTTAACCCAATGAAGTCCGT
CCTGGCCAGTGCCCTCTGGGACAAAGACGGTGCGCCTATGGGACATGTTTGACAGCTGGAGGACCAAGGAGACGCT
GGCCTTGACCTCTGATGCTCTGGCTGTGACTTTTCGCCCTGATGGTGCGGAGCTGGCTGTGGCCACACTGAACTC
ACAGATCACCTTCTGGGACCTTGAGAACGCGGTGCAGACGGGCTCCATTGAGGGCAGGCATGACCTCAAGACTGG
CAGGAAGGAGCTGGACAAGATTACAGCCAAGCAGCGGCCAAGGGGAAGGCCTTACCGCCCTGTGCTACTCTGC
AGACGGCCACAGCATCTTGCGGGGAGGCATGTCCAAGTTCGTGTGCATCTACCACGTCCGTGAGCAGATTCTCAT
GAAGAGGTTTCGAGATCTCTTGCAACCTGTCTCTGGACGCCATGGAGGAATTTTGAACCGAAGAAAAATGACAGA
GTTTGGCAACCTGGCACTAATTGATCAGGATGCTGGGCAGGAGGATGGAGTCGCGATACCACTGCCAGGCGTCAG
GAAAGGTGACATGAGTTCTCGGCACCTTCAAACCTGAGATCAGGGTGACCTCACTCCGCTTCTCTCCCACTG6GCG
CTGTGGGCGGGCACCACCAGGAGGGACTCCTCATCTACTCCCTGGACACCCGCGTGCTCTTTGACCCGTTTGA
GCTGGACACCAGCGTCACCCCCGGGAGGGTGC GCGAGGCACTGCGCCAGCAGGACTTACCAGGGCCATCCTCAT
GGCCTCCGGCTCAACGAGAGCAAACCTGGTGCAGGAGGCCTGGAGGCGGTGCCCAGGGGCGAGATTGAAGTGT
CACCTCCTCCCTTCTTGAACCTGTATGTGGAGAAAGTGTCTGGAGTTTTAGCTTCTCCTTGAAGTGTCTCGCCA
CCTGGAATTTACCTCCTCTGGACTCACAACTGCTCATGTTGCACGGACAGAAGCTGAAGTCTCAGAGCCGGGAC
GCTGCTGCCCTGTCATTCAAGTTCTCCAGAGGATCCAGCGGCACCTGGACGACCTGTGCAAACTCTGTAGCTG
GAACCACTATAACATGCAGTACGCATAGCAGTTTCCAAGCAGCGGGGCACAAAACGCTCCCTAGACCCGCTGGG
AAGTGAGGAGGAGGCAAGCATCTGAAGATGACAGCCTGCATCTGCTTGGAGGAGGAGGCGAGAGACTCAGAAGA
AGAGATGCTGGCC**TAG**AGCCAGCCGGTTGCAGCGTTGGATTGTGCCGGCTAAGACCTGCCAGGGAGATGGGACCC
TTGTGCCACCTGGGCCAGCAAAGAGGAGGGGTCCAGAGAACAGCTGAAATACTGTCACTAGTGGTAGTGACTTGC
TTTTCTGTGCACACATGTAGCCCATCAGGACAGCGAGCCGACGGGTACGCCAGGGGCCGGCACGCACTGGCAC
CTGGCCCCAGGAGCGGGCCCGTGTGAACGGTGTGAATGTTGAAAATGCGTCTCAGAGAGGTATTACATGAAC
TTGTATGAGACTTATTTATATTTTTTAACATAAAGGTTTGATAAAGAAGTTAGGGATTAAAAAAAAGATGGAGTTT
TCTAACGTGAGGATGAAGTCTACACTTCAGATTAAAAAGGGTTATGTTGTA

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FIGURE 805

MKFAYRFSNLLGTVYRRGNLNFTCNNGNSVISPVGNRVTVFDLKNKSDTLPLATRYNVKCVGLSPDGRLAIIVDE
GGDALLVSLVCRSVLHHFHFHFKGSVHSVSFSPDGRKFVVTGNIAQMYHAPGKKREFNAFVLDKTYFGPYDETTICI
DWTDSDRCFVVGSKDMSTWVFGAERWDNLIYYALGGHKDAIVACFFESNSLDLYSLSQDGVLCMWQCDTPPEGLR
LKPPAGWKADLLQREEEEEEEEDQEGDRETTIRGKATPAEEKTKGVKYSRLAKYFFNKEGDFNNLTAAAFHKKS
HLLVTGFASGIFHLHELPEFNLIHSLISISDQSIASVAINSSGDWIAFGCSGLGQLLVWEWQSESYVLKQQGHFNS
MVALAYSPDGQYIVTGGDDGKVKVWNTLSGFCFVTFTEHSSGVTGVTFTATGYVVVTSSMDGTVRAFDLHRYRNF
RTFTSPRPTQFSCVAVDASGEIVSAGAQDSFEIFVWSMQTGRLLDVLSGHEGPISGLCFNPMKSVLASASWDKTV
RLWDMFDSWRKETLALTSDALAVTFRPDGAELAVATLNSQITFWDPENAVQTGSIEGRHDLKTGRKELDKITAK
HAAKGKAFTALCYSADGHSILAGGMSKFVCIYHVREQILMKRFEISCNLSLDAMEEFLNRRKMTEFGNLALIDQD
AGQEDGVAIPLPGVRKGDMSRHFKEIRVTSRFSPTGRCWAGTTTEGLLIYSLDTRVLFDPFELDTSVTPGRV
REALRQQDFTRAILMALRLNESKLVQEALAVPRGEIEVVTSSLPELYVEKVLFLASSFEVSRHLEFYLLWTHK
LLMLHGQKLKSRAGTLLPVIQFLQKSIQRHLDDLKLCSWNHYNMQYALAVSKQRGTRKSLDPLGSEEEAEASED
DSLHLLGGGGRDSEEEMLA

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FIGURE 806

CCCCGCGGGCTGCAGCGAGCCAGGCATGCTCACTGGCGCAGGCCCGGCCGAGCCCGAGCAGGAAGCGCCGGCG
TAGGCGGCCCCCTGCGCTGCCAGCTGGAGCCGGGCGGAGCCAGCGCCCCGGCGCAGGGTGGCTCTGCCAGTCCCC
GCGCGCCTGGGCGGCCGACACGTGTCCAGGCGTCACGTCCGCGCGCGCCCCGGGGCTTGCGTCAGCGGCTGTT
CCAGAAGCGGGTGGGCCAGGGCTCTGCGCACCGCTGGGGTTTCGGGGCCCGGGACGCCGCCGGGAGGAGGGCACCG
CGCGGGGTCCGACGCGGAGGCGTGTCTGGAACGCCGGGGGGCTGCGGAGTGCATCAGCGCGGTCCAGCCCTCCGCC
TGCCGGGCGCGGAGCGTCTCCGCCGCCCGGACCTGGGCTGGGCGCCGTGGCGTTGCCCTCGGAGCTCGCTGCCCGC
GGGCGCGCACCGCCTTGACCCGGGCGGCCCGCGGCAGGCAGGCGCCCGCAGTTCCATGGTTGGTTCGGAGCGC
GATGAGCCGCCCCGTCTCCACCGGCCCGAGCGCTAATAAACCTTGACGAAGCAGCCGCCCGCAGCCCCAGCA
CACTCCGTCCCCGGCTGCGCCCCCGCGCGGCCACCATCTCGGCTGCGGGCCCCGGCTCGTCCGCGGTGCCCGC
CGCGGCGCGGGTGATCTCGGGCCCCGGCGGCGCGGGGCCCGCCGGTGTCCCGCAGCACACGAGCTGAC
CTCGCTCTTCGAGTGTCCGGTCTGCTTTGACTATGCTCTGCTCCTATTCTGCAGTGCCAGGCCGGGCACCTGGT
GTGTAACCAATGCCGCCAGAAGTTGAGCTGCTGCCGACGTGCAGGGGCGCCCTGACGCCAGCATCAGGAACCT
GGCTATGGAGAAGGTGGCCTCGGCAGTCTGTTTCCCTGTAAGTATGCCACCACGGGCTGTTCCCTGACCTGCA
CCATACGGAGAAACCAGAACATGAAGACATATGTGAATACCGCCCTACTCCTGCCCATGTCTGGTGTCTCTG
CAAGTGGCAGGGGTCCCTGGAAGCTGTGATGTCCCATCTCATGCACGCCACAAGAGCATTACCACCTTCAGGA
AGAAGACATCGTCTTTCTAGCTACAGACATTAACCTGCCAGGGGCTGTCGACTGGGTGATGATGCAGTCATGTTT
TGGCCATCACTTCATGCTGGTGCTGGAGAAACAAGAGAAGTACGAAGGCCACCAGCAGTTTTTTGCCATCGTCCT
GCTCATTGGCACCCGCAAGCAAGCCGAGAACTTTGCCCTACAGACTGGAGTTGAATGGGAACCGCGGAGATTGAC
CTGGGAGGCCACGCCCGCTCGATTTCATGACGGTGTGGCTGCGGCCATCATGAACAGCGACTGCCTTGTTCGA
CACAGCCATAGCACATCTTTTGCAGATAATGGGAACCTTGAATCAATGTTACTATTTCTACATGTTGTCCATG
ATGTGACTTCCGTAAACCTTCAAATTTATTTGGGCATACTGCTCTATGTTAATAAAGGTTTTATAGATGTTTT
ATTCCATATGTCTTCACAAGTCAGGACCCACAATTACCCGTGTTTTGTTGAACAGCAGTGTCCTATCTGGCTTC
GACCCAACAAAGTTCATTAACTGGGATGAATGGGGTGGCCTGTTGGTGATTGGATGCTGTTCTGTGATCTAA
AACAACCTCTTATTGAATTGTATTTACTCCCTAAACAACACTTGACAGGCTGTTGCACAGGGCTTCTATAGATCAG
TGTGTTAGGAATGGGAGGCCCTTCTGCTGCCTTCCCATATTGGTCCCTTGACATTGACAAAAGCACAGTGAC
TGTGAGCAGATTCCCTTTACTTTTGTGTTGGGAGGTAGGAATTGTTTTAATGCATTTTAAACAGTGTTTCTGAAA
TTGGATGGCTGGCTAATAGACACTGAATACCCGGAGTGCTTATCTTAAATTCAGATTAGGGAGCCTGCCAA
TTTAACAGTCTCATCAGTGATCTTTCAACAGTAATGTTTGAGAATTACTGGGTAAATTTGGGAAAGGGTCCAGA
TTTTAAAGGTGCTTTAAGGTTGCCCTCTGCCGATACTGTTGTCTTTCTACTGTTTCATCCCCTAACTTCCCCCA
ACCCTCAAATTAACACTAGAACTATAGATCCACATGAACGCACGCCTGAGATTGGCCACTCACC

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FIGURE 807

MSRPSSTGPSANKPCSKQPPPPQHTPSPAAPPAAATISAAGPGSSAVPAAAAVISGPGGGGGAGPVSPQHHELT
SLFECPVCFDYVLPPILQCQAGHLVCNQCROKLSCCPTCRGALTPSIRNLAMEKVASAVLFPCKYATTGCSLT
HTEKPEHEDICEYRPYSCPCPGASCKWQGSLEAVMSHLMHAHKSITTLQEEDIVFLATDINLPGAVDWMMQSCF
GHHFMLVLEKQEKYEGHQFFAIVLLIGTRKQAENFAYRLELNGNRRRLTWEATPRSIHDGVAAAIMNSDCLVFD
TAIAHLFADNGNLGINVTISTCCP

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FIGURE 808

GAGCCCAGCCGAGCGTCCGCCGCTGCCCGTGCCTCTGCGCTCCGCGCCATGGCCGGCCTCAACTCCCTGGAGG
CGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCGGAAGACCGCGCGCAGGGCCTGCAGCGGG
AGCTGGACGCGGAGCGGAGCGGCGGAGAAAGCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCG
TTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTG
CAGATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTCAGG
AGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGG
TCATCCTGGAGGGTGAGCTGGAGAGGGCAGAGGAGCGTGCGGAGGTGTCTGAACTAAAATGTGGTGACCTGGAAG
AAGAACTCAAGAATGTTACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACA
AATATGAAGAAGAAATTAACTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAA
CGGTTGCAAACTGGAAAAGACAATTGATGACCTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCT
TACATCAGACACTGGATCAGACACTAAACGAACCTAACTGTATATAGCAAAACAGAAGAGTCTTGTTCACAG
AAACTCTGGAGCTCCGTGGGCTTTCTCTTCTTGTGAAGAAGTTCCTTTTGTATTGCCATCTTCGCTTTGCTG
GAAATGTCAAGCAAATTATGAATACATGACCAAATATTTTGTATCGGAGAAGCTTTGAGCACCAGTTAAATCTCA
TTCCTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTCAGCTCTCTTATTTTTTCCCTTAAGTAGCATTTATTCCT
AAGGTAGGCAGGGTATTTCTAGTAAGCATACTTCTTAAGACGAGGCCATTTGGTTCCTGGGAGAATAGGCAG
CCCCACACTTTGAAGAATACAGACCCAGTATCTAGTCGTGGATATAATTAAAACGCTGAAGACCATAACCTTTT
GGGTCAACTGTTGGTCAAATATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTCCATCCAGAGCCAAT
AAAAGGACTGGTGGGGGCCGGGGTGGCTATTGTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTG
GCCCTTCTCCACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCA
TAATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTTCTT
CATTCTAAAGTTGTTCCCTGGCCGGGAGCGTTTGCTTTTCGCTGTAATCCCAACACTTTGGGAGGCCAGGACAGA
TCACTTGAGGTCAGGAGTTTCGAGACCAGCCAGCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATT
ATGGTGACGCCTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGGAG
ACTGCAGTGAGCCGATATCGCACCACAGCGCTCCAGCCTGGTCGACAGAGTGAGACTCCATCTCAAGAAAAAATA
AAAATAAAGTTGTTCTCTGAAGAGCAAATGTCTCATTCCAGTAATGACCCACTCAGCAGGAATATGGTGGAGTTC
AGTCCAATTTCAGGTGAGCCATATCCAAAAGACCACAAGTCATTACTAAGTTGAGCAAAAGAGTTTTTATCTATTA
GCAGAAAGGGCCTCTCTGGCAGCAGAGATTAAAACTGGCCCACTTCATTTCCATACTTCAGGGAACAGCAAAT
TGAGGATTTACTTATCTAGGACTT

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FIGURE 809

MAGLNSLEAVKRKIQALQQQADEAEDRAQGLQRELDGERERREKAEGDVAALNRRIQLVEEELDRAQERLATALQ
KLEEAekaADESERGMKVIENRAMKDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGELERAEEERAEVS
ELKCGDLEEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVAKLEKTIDDLEEKLA
QAKEENVGLHQTLDTLNLNCI

[illegible]

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FIGURE 810B

TATACAGCAIGTGCTTGCAACTTAAATATAAGTTGGGTATGTGTAGTCTTTGCTATACCACTGACTGTATTGAAA
ACCAAAGTATTAAGAGGGGAAACGCCCCTGTTTATATCTGTAGGGGTATTTACATTCAAAAATGTATGTTTTT
TTTCTTTTCAAAATTAAAGTATTTGGGACTGAATTGCACTAAGATATAACCTGCAAGCATATAATACAAAAAAA
ATTGCAAACTGTTTAGAACGCTAATAAAATTTATGCAGTTATAAAAATGGCATTACTGCACAGTTTTAAGATGA
TGCAGATTTTTTTACAGTTGTATTGTGGTGCAGAACTGGATTTTCTGTAACCTAAAAAAATCCACAGTTTTAAA
GGCAATAATCAGTAAATGTTATTTTCAGGGACTACATCCTGTCTTTAAAAAGAAATGAAAAGTAAATCTTACCAC
AATAAATATAAAAAATCTTGTCAGTTACTTTTCTTTTACATATTTTGCTGTGCAAAATTGTTTTATATCTTGAG
TTACTAACTAACCACGCGTGTGTTCCCTATGTGCTTTTCTTTCAATTTCAATTCTGGTTATATCAAGAAAAGATA
ATCTACAATAATAACGGCATTTTTTTTTGATTCTGTAAAAAAA

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FIGURE 811

MASELAMNSDLPTSPLAMEYVNDFDLMKFEVKKPEVETDRIISQCGRLIAGGSLSSSTPMSTPCSSVPPSPSFSA
PSPGSGSEQKAHLEDYYWMTGY PQQLNPEALGFSPEDAVEALISNSHQLQGGFDGYARGAQQAAAAAGAGAGASL
GGSGEEMGPAAAVVSAVIAAAAAQSGAGPHYHHHHHHAAGHHHPTAGAPGAAGSAAASAGGAGGAGGGGPASAG
GGGGGGGGGGGAAGAGGALHPHHAAGGLHFDDRFSDEQLVTMSVRELNRQLRGVSKEEVIRLKQKRRTLKNRG
YAQSCRFKRVQQRHVLESEKNQLLQQVDHLKQEISRLVRERDAYKEYEKLVS SGFRENGSSSDNPSSPEFFM

AATCGCGAAACCCGGCGAGCGGCGCGCTGGCTATCGAGCGAGCGGGGCGGAACCGGGAGTTGCGCCGCCGCTCGGCGCCGGGCTCCGTCGCGGCCGACAGCCCGCGGGTTCGCCCTCCCGTGCCTCGCCCGCGGACACCCTGGCCGTGGA CACCCTGGCCGTGGGCACCCGCGGGGCGCGGCGCGGGCGCTGCGCGGCGGGCGGCGCGGCATGAAGGTCACGTGCTCGACGGGCGCCAGCTGCGCAAGATGCTCCGCAAGGAGGCGGCGGCGCGCTGCGTGGTGCTCGACTGCCGGCCC TATCTGGCCTTCGCTGCCTCGAACGTGCGCGGCTCGCTCAACGTCAACCTCAACTCGGTGGTGCTGCGGCGGGCC CGGGGCGGCGCGGTGTGCGGCGCGCTACGTGCTGCCGACGAGGCGGCGCGCGCGCGGCTCCTGCAGGAGGGCGGCG GCGGCGCTGCGGGCCGTGGTGGTGCTGGACCAGGGCAGCCGCCACTGCGAGAAGCTGCGAGAGGAGAGCGCCGCG CGTGTCGTCTCTACCTCGCTACTCGCTTGCTTACC CGCGGCGCGCGGCTCTACTTCTCAAAGGGGGATATGAG ACTTTCTACTCGGAATATCCTGAGTGTGCGTGGATGTAAAACCCATTTCACAAGAGAAGATTGAGAGTGAGAGA GCCCTCATCAGCCAGTGTGGAAAACAGTGGTAAATGTCAGCTACAGGCCAGCTTATGACCAGGGTGGCCCAAGT GAAATCCTTCCCTTCTCTACCTTGGAAGTGCCTACCATGCATCCAAGTGCAGATTCTCTGCCAACCTTGCACATC ACAGCCCTGCTGAATGTCTCCCGACGACCTCCGAGGCGCTGCATGACCACCTACACTACAAATGGATCCCTGTG GAAGACAGCCACACGGCTGACATTAGCTCCCACTTTCAAGAAGCAATAGACTTCATTGACTGTGTGAGGGAAAAG GGAGGCAAGGTCTTGGTCCACTGTGAGGCTGGGATCTCCCGTTACCCACCATCTGCATGGCTTACCTTATGAAG ACCAAGCAGTTCGCGCTGAAGGAGGCGCTTCGATTACATCAAGCAGAGGAGGAGCATGGTCTCGCCCAACTTTGGC TTATGGGCCAGCTCCTGCGACTACGAATCTGAGATCTTGCCCTCCACGCCCAACCCCGAGCTCCCTCCTGCCAA GGGGAGGCGACAGGCTCTTCACTGATAGGCCATTTGCAGACACTGAGCCCTGACATGCAGGGTGCCTACTGCACA TTCCCTGCGCTCGGTGCTGGCACCGGTGCTTACCCACTCAACAGTCTCAGAGCTCAGCAGAAGCCCTGTGGCAACG GCCACATCCTGCTTAAACTGGGATGGAGGAATCGGCCAGCCCCAAGAGCAACTGTGATTTTTGTTTTTAAGACT CATGGACATTTTCATACCTGTGCAATACTGAAGACCTCATTCTGTCAIGCTGCCCCAGTGAGATAGTGAGTGGTCA CCAGGCTTGCAAATGAACCTCAGACGGACCTCAGGGTAGGTTCTCGGGACTGAAGGAAGGCCAAGCCATTACGGG AGCACAGCATGTGCTGACTACTGTACTTCCAGACCCCTGCCCTCTTGGGACTGCCCAGTCTTGCACCTCAGAGT TCGCCTTTTCATTTCAAGCATAAGCCAATAAATACCTGCAGCAACGTGGGAGAAAGAAGTTGCTGGACCAGGAGA AAAGGCAGTTATGAAGCCAATTCATTTTGAAGGAAGCACAAATTTCCACCTTATTTTTGAACCTTGGCAGTTTCA ATGCTGTGCTCTGTGTGCTTCGGGGCATAAGCTGATCACCCTAGTTGGGAAAGTCAACCTCAGGGATTGTAGG GACATGATCAGCATCCTGATTGTAACCCGAAATGTTGTGTAGACACCCCTCTTGGGTCCCAATGAGGTAGTTGGTT GAAGTAGCAAGATGTTGGCTTTTCTGATTTTTTTTGGCATTGGGGTTCTCTACCTGACCTTGGACTTTGGCATGATT CTATAGCATACTTGAACCTTGTCTCTGATCACTCTTCTCAGAGCAACTCTTCCCTTTGGGAAAAGAGTTCTTCAGA TCTATAGACAAAAAAGTCAATACCTTCGAGGTGGTAGCAGTAGATTCCAGGAGGAGAAGGGTACTTGTAGGTATC CTGGGTGAGTGGCGGTGCAAACTGGTTTTCTCAGCTGCCTGTCTTCTGTGTGCTTATGTCTCTTGTGACAATTG TTTTCTCCTCGCCCTGGAGGTTGTCTTCAACTGTGGACTTCTGGGATTTGCAGATTTTGCACCGTGGTACTAC TTTTTTTCTTTTTGTCTGTAGTTATTTCTCCAGGGGAAAAGGCAATAATTTCTAAGACCCGTGTGAATGTGA AGAAAAGCAGTATGTTACTGGTTGTTGTTGTTGTTGTTGTTTTTATATGTAATAAATAAGTGAAAGGAG

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FIGURE 813

MKVTSLDGRQLRKMLRKEAAARCVVLD CRPYLAFAASNVRGSLNVNLNSVVLRRARGGAVSARYVLPDEAARARL
LQEGGGGVAAVVLDQGSRHWQKLREESAARVLTSL LACLPAGPRVYFLKGGYETFYSEYPECCVDVKPISQEK
IESERALISQCGKPVVNVSYRPAIDQGGPVEILPFLYLGSAYHASKCEFLANLHITALLNVSRRTSEACMTHLY
KWIPVEDSHTADISSHFQEAIDFIDCVREKGGKVLVHCEAGISRSPTICMAYLMKTKQFRLKEAFDYIKQRRSMV
SPNFGFMGQLLQYESEILPSTPNPQPPSCQGEAAGSSLIGHLQTLSPDMQAYCTFPASVLAPVPTHSTVSELSR
SPVATATSC

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FIGURE 814

A^gCCGCCGCCTCGCCGCTTCCCTCTGTCGGAGCGGCCGCTCGTCCGCCCGGCTTGAGGCCCGGGGAGCGCGGC
GCAATTCGTGCGCCCGCGGGGGGCGGCCCTCCCGGCATCTTCGCGCGACCAAGGACTACCAGGAAGGGGAGCGG
CTGGGATCGCGCGTCCGCGGCCCGCGAGTACAAAGCGGGCGACCTGGTCTTCGCCAAGATGAAGGGCTACCCGC
ACTGGCCGGCCCGGATTGATGAACTCCCAGAGGGCGCTGTGAAGCCTCCAGCAAACAAGTATCCTATCTTCTTT
TTGGCACCCATGAACTGCATTTCTAGGTCCCAAAGACCTTTTCCATATAAGGAGTACAAAGACAAGTTTGGAA
AGTCAAACAAACGGAAGGATTTAACGAAGGATTGTGGGAAATAGAAAATAACCCAGGAGTAAAGTTTACTGGCT
ACCAGGCAATTCAGCAACAGAGCTCTTCAGAACTGAGGGAGAAGGTGGAAATACTGCAGATGCAAGCAGTGAGG
AAGAAGGTGATAGAGTAGAAGAAGATGGAAAAGGCAAAAGAAAGAATGAAAAGCAGGCTCAAACGGAAAAAGT
CATATACTTCAAAGAAATCCTCTAAACAGTCCCGGAAATCTCCAGGAGATGAAGATGACAAAGACTGCAAAGAAG
AGGAAAACAAAAGCAGCTCTGAGGGTGGAGATGCGGGCAACGACACAAGAAACACAACCTTCAGACTTGCAGAAAA
CCAGTGAAGGGACCTAACTACCATAATGAATGCTGCATATTAAGAGAAACCACAAGAAGGTTATATGTTTGTTG
TCTAATATTCTTGGATTTGATATGAACCAACACATAGTCTTGTGTGATTGACAGAACCCCACTTTGTATGTAC
ATTATTCATATTCCTCTCTGTTGTGTTTCGGGGGGAAAAGACATTTTAGCCTTTTTTAAAAGTTACTGATTTAAT
TTCATGTTATTTGGTTGCATGAAGTTGCCCTTAACCACTAAGGATTATCAAGATTTTTCGCGCAGACTTATACATG
TCTAGGATCCTTTTATCAAGGCAGTTATGATCATCGTTTTCTGCCTTGACCCCACTCATCAAACACTCAGTT
AAATATAAATTAACATTTTTTAGATGACCACTCAACATAATGCTTAAGAATGGAATTCCTCTCTGTGACAGAAC
CCAGGAATTAATTCCTAAATACATAACGTTGGTATATTGAAGACGAAATTAATTTGTCCTTCAGTTTTGAGGCC
ATGTGTAAAGTTTAACCATATTGTAAAATATCTATTCGCTATTAGAAATAGCTAGTTGACAGCTTATACTTCTCA
AAATTCATATTGTTATGTACACAACTAAGTTTCTATATGTGAAGTTAGTGAGTCTTTTTGTGTTACTCCAAAAT
AAAGGCAATGATTTATTTTTTCCAGTGCCAATACAATTTTGAGCTAAGCACTCAAGGTGGATACTTTACATTT
TAAAGCTGGAAATCAGCAACAGCCCTATGGGAAACCAGACAAAGCATTGACTTTTAAATGTAGACTTTTAAATATA
ACTGTTTTCTTTTGGAACTACAATTAGAATAGTTAATATTTCATCCTTAAACCATTATTATGTGTACATTATTGTT
GCTATTGTGATAATAGAGAATTTTATTTATTTTATGCCAGCTTAIATTGTGAGAACACATTTAGTCAGTTTGGG
TTTTATCAATCCTGTTAATGCTGTGCTTGGAAACATCTTCGCGTATTCACGGTTTGTAGTTGAAAAGTTTACTG
TAAAAAATCAAAAACAAAAAATGTATTGTTTTACAGAATAAATTTATTGGGATGTGTACTGGGAGTAAGATT
TGAGGTTGTAAGCAAACCTAAGTTAGTGTAATTTGGCTTCATATATGTAACGTGAGGTATTAATGTAATTCATATA
TTAAAGCAAAAATTGTTTCGCAGC

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FIGURE 815,

MARPRPREYKAGDLVFAKMGYPHWPARIDELPEGAVKPPANKYPIFFFGTHETAFLGPKDLFPYKEYKDKFGKS
NKRKGFNEGLWEIENNPVGKFTGYQAIQQSSSETEGEGGNTADASSEEGDRVEEDGKGKRKNEKAGSKRKKSY
TSKKSSKQSRKSPGDEDDKDCKEENKSSSEGGDAGNDRNTTSDLQKTSEGT

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FIGURE 816

GGCACGAGGCACGTGGTTATGCTGCCGGAGTTTGGGCCGCCACTGTAGGAAAAGTAACTTCAGCTGCAGCCCCAA
AGCGAGTGAGCCGAGCCGGAGCCATGGAGGGCCAGAGCGTGAGGAGCTGCTCGCAAAGGCAGAGCAGGACGAGG
CAGAGAAGTTGCAACGCATCACGGTGCACAAGGAGCTGGAGCTGCAGTTTGACCTGGGCAACCTGCTGGCGTCGG
ACCGGAACCCCCGACCGGGCTGCGGTGCGCCGACCCACGCCGAGGCCGAGCTACAGGCCCTGGCGCGGGACA
ACACGCAACTGCTCATCAACCAGCTGTGGCAGCTGCCACGGAGCGCGTGGAAGAGGCGATAGTGGCGCGGCTGC
CGGAGCCCAACACACGCCGTGCCGCGAGAGAAGCCTCTGCCCCGACCGCGGCCACTTACACGCTGGCAGCAGTTTCG
CGCGCCTCAAGGGCATCCGTCCCAAGAAGAAGACCAACCTGGTGTGGGACGAGGTGAGTGGCCAGTGGCGGGCGC
GCTGGGGTACCAGCGCGCCCGGACGACACCAAGAATGGCTGATTGAGGTGCCCGGCAATGCCGACCCCTTGG
AGGACCAGTTCGCCAAGCGGATTGAGGCCAAGAAGGAAAGGGTGGCCAAGAACGAGCTGAACCGGCTGCGTAACC
TGGCCCGCGCGCACAAAGATGCAGCTGCCCAGCGCGCGCGCTTGCACCCTACCGGACACCAGAGTAAGGAGGAGC
TGGCCCGCGCCATGCAAGTGGCCAAGGTCTCCACCGCTCTGTGGGGCGCTTTCAGGAGCGCTCCCCAAGGAGA
AGGTGCCCCGGGGCTCCGGCAAGAAAAGGAAGTTTCAACCCCTTTTCGGGGACTTTGCAGCCGAGAAAAAGAACC
AGTTGGAGCTGCTTCGTGTCATGAACAGCAAGAAGCCTCAGCTGGATGTGACTAGGGCCACCAATAAGCAGATGA
GGGAGGAGGACCAGGAGGAGGCCCAAGAGGAGGAAAATGAGCCAGAAGGGCAAGAGAAAGGGAGGCGCGCAGG
GGCCTGGGGGCAAGAGGAAAGGGGGCCCCCAGCCAGGGAGGGAAGAGGAAAGGGGGCTTGGCAGGCAAGATGA
ATTCTGGGGCGCTGGCTTGGGTGGCAAGAGAAAAGGAGGACAGCGCCAGGAGGAAAGAGGAGGAAGTAATAGT
TTCTAACTGTCGGACCCGTCTGTAAACCAAGGACTATGAATACTAAATGTTAAGTTCTAGGCAATTATACGGGGA
CTCAGAAGGACCTGGCCGCTGCCTTCATTGAGTTTAAAGGGACAGGATTGCCCTTCCGTCAAGAAAGTATGTAAG
TGTTGGACTGCACAAATTAATGTTTTTCCACAACCGAGACTTTGGAGATTAAGAACTTATTTGAGGATTTAAGA
ATTAGGGAAATAATTTGGTGGAAACCGGAATGAGTTCTATTCTTAAACAGCCTTTTTTTTTCTTTTTAATGTTG
GATATACGGCGAGGTAGAGTTGGCCATATTTAGAGACTTAGATTGACGTATATGTTTCTGCATTATTTTTACAA
CAAGTTTGTGTATCAGAGCGGGAGTGCGGGGAGGGAAAGAAAACAAACAGTTTCAGAATTGAATAGGCAAGTGA
CTGTTTTAAAGATTAAGTAATAAAGATGTCTTATCTAGTGTGACTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 817

MEGQSVEELLAKAEQDEAEKLQRITVHKELELQFDLGNLLASDRNPPTGLRCAGPTPEAELOALARDNTQLLINQ
LWQLPTERVEEAIVARLPEPTTRLPREKPLPRPRPLTRWQQFARLKGIRPKKKTNLVWDEVSGQWRRRWGYQRAR
DDTKEWLIEVPGNADPLEDQFAKRIQAKKERVAKNELNRLRLNLARAHKMQLPSAAGLHPTGHQSKEELGRAMQVA
KVSTASVGRFQERLPKEKVPRGSGKKRKFPQLFGDFAAEKKNQLELLRVMNSKKPQLDVTRATNKQMRREEDQEEA
AKRRKMSQKGKRKGGRQGPGGKRKGPPSQGGKRKGGLGGKMNSGPPGLGGKRKGGRPGGKRRK

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FIGURE 818

GGGAGCGGCCGTGGAGCCCAATCGTTGCTCCCTTCCCGGGTCCGCGCGCGCGCCGCTCCGCCATTGCTGCG
AGCAGGAGCAGGAGACGCGGAGCTCGGAGCGCTGAGCTGACCTGCCGGAGCCGGGCGTGGGCTGCAGCCTCGGAG
CTCCCGGAACGATGGTGAAGTTGGGGAACAATTTGCGAGAGAAGGGCACCAAGCAGCCGCTGCTGGAGGATGGCT
TCGACACCAATTCCTGATGACGCCCCCTCGATGTCAATCAGCTGCAGTTCCCGCCCCGGATAAGGTGGTCGTGA
AACTAAGACCGAGTATGAACCTGACCGCAAGAAAGGGAAAGCACGTCTCCCAAATTGCTGAGTTCACCGTCA
GCATCACGGAGGGTGTACCGAGAGGTTTAAGGTCTCCGTGTTGGTCCTTTCGCCCTGGCCTTCCTCACCTGCG
TCGTCTTCCTGGTTGTCTACAAGGTGTACAAGTATGACCGCGCCTGCCCGATGGGTTCGTCTCAAGAACACCC
AGTGCATCCCAGAAGGCTTGGAGAGCTACTACGCGGAGCAAGACTCCAGTGCCCGGGAGAAATTTACACAGTCA
TAAACCACTACAACCTGGCCAAGCAGAGCATCACGCGCTCCGTATCGCCCTGGATGTCAGTTCTGTCAGAAGAGA
AGCTGTCCGAGCAGGAGACTGAAGCGGCTGAGAAGTCAGCTTAGCGGGATGGGCAAGTTCCTTACAATGTGTCAC
TTGCAAATAACAAAGGGACTTTGAGGGACATTTCAATAATATAATTACTGATACTTTAGAGGTTACTCATTAC
GGTGCAATTGCTTCTGTTTGCTAATGCTGCTTTGCAAATAAACTTGCTGCCGACCACCCACGGGCATAAAATCA
AGTGCATTTAGCATTGCCTAAAGAGCTCTGACACCACTTTTCATGTTAAGATCTTCATTTAGCTCCTTTACTGG
GATTTATTGGATGCTGTAAAAAATAAATTTACACTGGATATGCGAAGGGTTGGATCTCAGATAAATGCATTTT
GTGGAATTGATTTTCTGAACCGACCCTGCTGTCTGCAAACCTTCCTCCATAGCCATATCTAGAGTGATCTCTCGC
TGTGCTAAGAGCAAGCCTACTTCGCATTTCTTCCTCGGCCATCAGCGGGTAACAGTGCTGACTGCTGCCAAGGTG
CACTGTAGTAAGGTGTCTGGAGACACAGACCGTGACCTTGGCGCAGCGGTGTGCATCAGAGGCGTGTGCTGAGAA
GGGTGGTGTAAAGCTGTGGAAAATGACTCAAGAGCAATAAATCAGTGCCAAAGCTTCCTGCGCATCTGAATAGA
CACAAGTGAAGCCCGTGTGCGCACAGTGAGAGGCCGAGCCTGTATTTCCAGGTAGACGTGGACTTTATTGACTG
TGAATTCATTTACCTGTAACCTCTGACATTTCACTCTGTGCAAATAAAGAACATGAGGATAAAAAAAAAAAAAA
AAA

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FIGURE 819

MVKLGNNFAEKGTKQPLLEDGFDTIPLMTPLDVNQLQFPFDPKVVVKTTEYEPDRKKGKARPPQIAEFTVSITE
GVTERFKVSVLVLFALAF LTCVVFLVVYKVYKYDRACPDGFVLKNTQCIPEGLESYYAEQDSSAREKFYTVINHY
NLAKQSITRSVPWMSVLSEEKLSEQETEA AEKSA

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FIGURE 820

GAGGGAAGTGTGCGACTGCGCCGGCGGGAACAGACATGCTGCGGCCAAGAAGCAGAAGCTGAGCAGTGACGAGAA
CAGCAATCCAGAACTCTCTGGGAGACGAGAATGATGACGCTGTGCTAGTATAGAAAGTGGTACAAACACTGAACGCC
TGATACACCTACAAACACGCCAAATGCACCTGGAAGGAAAAGTTGGGGAAAGGGAAAATGGAAGTCAAAGAAATG
CAAATATTCTTTCAAATGTGTAAATAGTCTCAAGGAAGATCATAACCAACCATTGTTTGGAGTTCAGTTTAACTG
GCACAGTAAAGAAGGAGATCCATTAGTGTGTTGCAACTGTAGGAAGCAACAGAGTTACCTTGTATGAATGTCATT
ACAAGGAGAAATCCGGTTGTTGCAATCTTACGTGGATGCTGATGCTGATGAAAACCTTTTACACTTGTGCATGGAC
CTATGATAGCAATACGAGCCATCCTCTGCTGGCTGTAGCTGGATCTAGAGGCATAATTAGGATAATAAATCCTAT
AACAATGCAGTGTATAAAGCACTATGTTGGCCATGGAAATGCTATCAATGAGCTGAAATTCATCCAAGAGATCC
AAATCTTCTCCTGTGTCAGTAAGTAAAGATCATGCTTTACGATTATGGAATATCCAGACGGACACTCTGGTGGCAAT
ATTTGGAGGCGTAGAAGGGCACAGAGATGAAGTTCTAAGTGTGATTATGATCTTTTGGGTGAAAAAATAATGTC
CTGTGGTATGGATCATTCTCTTAACTTTGGAGGATCAATTCAAAGAGAATGATGAATGCAATTAAGGAATCTTA
TGATTATAATCCAAATAAACTAACAGGCCATTTATTTCTCAGAAAATCCATTTTCTGATTTTTCTACCAGAGA
CATACATAGGAATTATGTTGATTGTGTGCGATGGTTAGGCGATTTGATACTTTCTAAGTCTTGTGAAAATGCCAT
TGTGTGCTGGAAACCTGGCAAGATGGAAGATGATATAGATAAAATTAAACCCAGTGAATCTAATGTGACTATTCT
TGGGCGATTTGATTACAGCCAGTGTGACATTTGGTACATGAGGTTTTCTATGGATTTCTGGCAAAAGATGCTTGC
ATTGGGCAATCAAGTTGGCAAACCTTATGTTTGGGATTTAGAAGTAGAAGATCCTCATAAAGCCAAATGTACAAC
ACTGACTCATCAAAATGTGGTGCTGCTATTGACAAAACAGTTTTAGCAGGGATAGCAGCATTCTTATAGCTGT
TTGTGATGATGCCAGTATTTGGCGCTGGGATCGACTTCGATATAAATACTTTTGCCTAATCAAAATTAAATGTGT
TTGTTGTCTGTGTAAAAATAAAATTAATGTATCTTGCTAGTAAGGGCACGTAGAGCATTAGAGTTGTCTTTCAGC
ATTCAATCAGGCTGAGCTGAATGTAGTGATGTTTACATTGTTTACATTCTTTGTACTGTCTTCCTGCTCAGACTC
TACTGCTTTTAATAAAAAATTTATTTTGTG

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FIGURE 821

MPAAKKQKLSSDENSNPESLGDENDDAVSIESGINTERPDTPNTPNAPGRKSWGKWKWSKKCKYSFKCVNSLK
EDHNQPLFGVQFNWHSKEGDPLVFATVGSNRVTLYECHSQGEIRLLQSYVDADADENFYTCAWTYDSNTSHPLLA
VAGSRGIIRIINPITMQCIKHYVGHGNAINELKFHPRDPNLLLSVSKDHALRLWNIQTDTLVAIFGGVEGHRDEV
LSADYDLLGEKIMSCGMDHSLKLWRINSKRMMNAIKESYDYNPNKTNRPFISQKIHFDPDFSTRDIHRNYVDCVRW
LGDILILSKSCENAIVCWKPGKMEDDIDKIKPSESNTILGRFDYSQCDIWYMRFSMDFWQKMLALGNQVGKLYVW
DLEVEDPHKAKCTTLTHHKCGAAIRQTSFSRDSSILIAVCDDASIWRWDRLR

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FIGURE 822

GCACGAGGCGAGCTGGAGTGATCTTTATTCACAATGTCTTTACAAAGGCTCCTGCAACACAGCAGCAATGGCAAT
TTGGCGGACTTCTGCGCTGGGCCAGCGTATAGCTCTTACTCCACACTCACCGGCAGCCTTACGATGAACGATAAT
AGAAGGATTCAAATGCTAGCAGACACGGTGGCTACTCTGCCTCGGGGACGAAAGCAGCTTGCTTTGACCAGATCA
AGTTCTTTAAGTGACTTTTTCTGGTCTCAAAGAAAGCTTGTTACTGTGGAGAAGCAGGATAATGAAACATTTGGA
TTTGAAATTCAGTCTTACAGGCCCCAGAATCAGAATGCCTGCTCCTCGGAAATGTTCACTTTGATATGCAAAATA
CAGGAGGACAGCCAGCTCACTGTGCTGGCCTGCAAGCTGGTGATGTCCTTGCAAAATATCAATGGTGTGAGCACA
GAAGGTTTTACCTACAAACAAGTCGTTGACCTGATCAGATCGTCCGGAACCTGCTAACGATAGAGACTCTTAAT
GGAACAATGATTCTGAAAAGAACGGAGCTTGAAGCAAAGCTGCAGGTTTTAAAGCAAACCTTTGAAACAAAAATGG
GTGGAGTACAGATCTCTGCAGTTACAGGAACATCGTCTGCTTCATGGTGATGCAGCTAATTGCCCCAGTTTGGA
AACATGGACTTGGATGAATTGCTTTGTTTGGACCCCTGCCTGGGCCAGGCCAGCCCTTGTGGACCGGAATCGA
TTATCCAGTGAGAGCAGCTGTAAGAGCTGGCTGAGCTCCATGACGATGGACAGTGAAGATGGCTACCAGACGTGT
GTGTCTGAGGACTCCAGCAGGGGTGCCTTCAGTCGGCAGACGAGTACAGATGATGAGTGCTTTATCCCCAAGGAG
GGGGATGATTTTCTGAGGAGGTCACTTCAAGGAGGAACCGGAGCATCAGTAACACCAGCAGCGGATCCATGTCT
CCCTTGTGGGAGGGCAACTTATCAAGCATGTTTGGGACCCTGCCCCGGAAGAGCAGAAAGGGAAGTGTCCGAAAG
CAACTCTTGAAATTTATCCCTGGCCTTCATCGTGCTGTGGAAGAGGAAGAAAGTCGCTTTTGACGGATTGTGGTG
TCCTTTCAAATTAGCTTATTTACAAATATCTCTAGACTCACCCAGATCCCAGCTTGGTGGGAAAGTGCAGAAGA
ATTGCAAACTGACATCCCATTTACAGCAATAGTGACCTTTATTTAAATTGTTGTGTTATAGTTTATGCTTCTT
AAATCATTTTTCAACCTAAACAGCCAATTTCTAAGCAGACAGGAAAATAAATAAAGTTAATTAAATAACAA
AGATGCAGGTTCTGCTCATTCCAGTAATGTCTTTGAAAGCAAACCTAATATTTATTTCTAGATTATCCCTGTG
AATAATTGAGAACTTTTGGAGTCAAGTATGAATAAAGGTGTGGCAGAATATAATAATCTGGACTATTTCTATA
GGATAATTGCTGGGTATATAAAATCTTAGGTTTGCTTATGCCAGTAGCTCCTGCGGAGGCTTAATAATAGGCAAT
TTTGAATTTGTTCAAACCTGTAATGGCTTGTAACAAAGATGACCATCAGCTGTTTCTCACATCTATAGTGACAA
TAAAGCGGAAGTATAAGATTTAATAGGAGGGGTAAAGGTTTCATGAGAACCATGGAAAGATGTGGTCTGAGATGG
GTGCTGCAAGATCATAATAAAGTCATTTTATAGACAGTCTAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 823

MSLQRLQLQHSSNGNLADFCAGPAYSSYSTLTGSLTMNDNRRIQMLADTVATLPRGRKQLALTRSSSLSDFSWSQR
KLVTVEKQDNETFGFEIQSYRPQNQNACSSSEMFTLICKIQEDSPAHCAGLQAGDVLANINGVSTEGFTYKQVVDL
IRSSGNLLTIETLNGTMILKRTELEAKLQVLKQTLKQKWVEYRSLQLQEHRLHGDAAANCPSLENMDLDELSLFG
PLPGPGPALVDRNRLSSESSCKSWLSSMTMDSYQTCVSEDSSRGAFSRQTSTDDECFIPKEGDDFLRRSSSR
RNRSISNTSSGMSPLWEGNLSSMFGTLPRKSRKGSVRKQLLKFIPLHRAVEEEESRF

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FIGURE 824

ACTTTCCTGCCCTTCCCCGGCCAAGCCCAACTCCGGATCTCGCTCTCCACCGGATCTCACCCGCCACACCCGGA
CAGGCGGCTGGAGGAGGCGGGCGTCTAAAATTCTGGGAAGCAGAACCTGGCCGGAGCCACTAGACAGAGCCGGGC
CTAGCCCAGAGACATGGAGAGTTGCTACAACCCAGGTCTGGATGGTATTATTGAATATGATGATTTCAAATTGAA
CTCCTCCATTGTGGAACCCAGGAGCCAGCCCCAGAAACAGCTGATGGCCCCCTACCTGGTGATCGTGGAACAGCC
TAAGCAGAGAGGCTTCCGATTTCGATATGGCTGTGAAGGCCCTCCCATGGAGGACTGCCCCGTGCCTCCAGTGA
GAAGGGCCGAAAGACCTATCCCACTGTCAAGATCTGTAACTACGAGGGACCAGCCAAGATCGAGGTGGACCTGGT
AACACACAGTGACCCACCTCGTGCTCATGCCACAGTCTGTGGGCAAGCAATGCTCGGAGCTGGGGATCTGCGC
CGTTTTCTGTGGGGCCCAAGGACATGACTGCCCAATTTAACAACCTGGGTGTCTGCATGTGACTAAGAAGAAT
GATGGGGACTATGATACAAAACTTCAGAGGCAGCGGCTCCGCTCTAGGCCCCAGGGCCTTACGGAGGCCGAGCA
GCGGGAGCTGGAGCAAGAGGCCAAAGAAGTGAAGAAGGTGATGGATCTGAGTATAGTGCGGCTGCGCTTCTCTGC
CTTCCTTAGAGCCAGTGATGGCTCCTTCTCCTGCCCCGTAAGCCAGTACCTCCCAGCCCATCCATGATAGCAA
ATCTCCGGGGGCATCAAACCTGAAGATTTCTCGAATGGACAAGACAGCAGGCTCTGTGCGGGTGGAGATGAAGT
TTATCTGCTTTGTGACAAGGTGCAGAAAGATGACATTGAGGTTTCGGTTCTATGAGGATGATGAGAATGGATGGCA
GGCCTTTGGGGACTTCTCTCCACAGATGTGCATAAACAGTATGCCATTGTGTTCCGGACACCCCCCTATCACAA
GATGAAGATTGAGCGGCCTGTAAAGTGTCTGCAACTGAAACGCAAGCGAGGAGGGGACGTGTCTGATTCCAA
ACAGTTCACCTATTACCCTCTGGTGGAAGACAAGGAAGAGGTGCAGCGGAAGCGGAGGAAGGCCCTTGCCACCTT
CTCCCAGCCCTTCGGGGGTGGCTCCACATGGGTGGAGGCTCTGGGGGTGCAGCCGGGGGCTACGGAGGAGCTGG
AGGAGGTGGCAGCCTCGGTTTCTTCCCCTCCTCCCTGGCCTACAGCCCTACCAGTCCGGCGCGGGCCCCATGCG
GTGCTACCCGGGAGGCGGGGGCGGGGCGCAGATGGCCGCCACGGTGCCAGCAGGGACTCCGGGGAGGAAGCCGC
GGAGCCGAGCGCCCCCTCCAGGACCCCCCAGTGCGAGCCGAGGCCCGGAGATGCTGCAGCGAGCTCGAGAGTA
CAACGCGCGCCTGTTCGGCCTGGCGCACGCAGCCCCGAGCCCTACTCGACTACTGCGTCAACGCGGACGCCGCGC
GCTGCTGGCGGGACAGCGCCACCTGCTGACGGCGCAGGACGAGAACGGAGACACACCACTGCACCTAGCCATCAT
CCACGGGCAGACCAGTGTCAATTGAGCAGATAGTCTATGTATCCACCACGCCAGGACCTCGGCGTGTCAACCT
CACCAACCACCTGCACCAGACGCCCTGCACCTGGCGGTGATCACGGGGCAGACGAGTGTGGTGAGCTTTCTGCT
GCGGGTAGGTGCAGACCCAGCTCTGCTGGATCGGCATGGAGACTCAGCCATGCATCTGGCGCTGCGGGCAGGCGC
TGGTGCTCCTGAGCTGCTGCGTGCACTGCTTCAGAGTGGAGCTCCTGCTGTGCCCCAGCTGTTGCATATGCCTGA
CTTTGAGGGACTGTATCCAGTACACCTGGCGGTCCGAGCCCCGAGCCCTGAGTGCCTGGATCTGCTGGTGGACAG
TGGGGCTGAAGTGGAGGCCACAGAGCGGCAGGGGGGACGAACAGCCTTGCACTTAGCCACAGAGATGGAGGAGCT
GGGGTTGGTCACCCATCTGGTCACCAAGCTCCGGGCCAACGTGAACGCTCGCACCTTTGCGGGAAACACACCCCT
GCACCTGGCAGCTGGACTGGGGTACCCGACCCTCACCCGCTCCTTCTGAAGGCTGGTGCTGACATCCATGCTGA
AAACGAGGAGCCCCGTGCCCCACTGCCTTCACCCCTACCTCTGATAGCGACTCGGACTCTGAAGGGCCTGAGAA
GGACACCCGAAGCAGCTTCCGGGGCCACACGCCTCTTGACCTCACTTGACAGACCTGGTGAAGACCTTGCTGCT
AAATGCTGCTCAGAACACCATGGAGCCACCCCTGACCCCGCCAGCCAGCAGGGCCGGGACTGTCACTTGGTGA
TACAGCTCTGCAGAACCTGGAGCAGCTGCTAGACGGGCCAGAAGCCCAGGGCAGCTGGGCAGAGCTGGCAGAGCG
TCTGGGGCTGCGCAGCCTGGTAGACACGTACCGACAGACAACCTCACCCAGTGGCAGCCTCCTGCGCAGCTACGA
GCTGGCTGGCGGGGACCTGGCAGGTCTACTGGAGGCCCTGTCTGACATGGGCCTAGAGGAGGGAGTGAGGCTGCT
GAGGGGTCCAGAAACCCGAGACAAGCTGCCAGCACAGAGGTGAAGGAAGACAGTGCCTACGGGAGCCAGTCAGT
GGAGCAGGAGGCAGAGAAGCTGGGGCCACCCCTGAGCCACCAGGAGGGCTCTCGCACGGGCACCCCGACCTCA
GGTACTGACCTGCTGCTGCCCCAGCCCCCTTCCCGGACCCCTGTACAGCGTCCCCACCTATTTCAAATCTT
ATTTAACACCCACACCCACCCCTCAGTTGGGACAAATAAGGATTCTCATGGGAAGGGGAGGACCCCGAATTC

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FIGURE 825

MESCYNPGLDGIIEYDDFKLNSSIVEPKEPAPETADGPYLVIVEQPKQRGFRFRYGCEGFSHGGLPGASSEKGRK
TYPTVKICNYEGPAKIEVDLVTHSDPPRAHAHSLVGKQCSELGICAVSVGPKDMTAQFNNLGVLHVTKKNMMGMT
IQKLQRQLRSRPQGLTEAEQRELEQEAKELKKVMDLSIVRLRFSAFIRASDGSFSLPLKPVTSQPIHDSKSPGA
SNLKISRMDKTAGSVRGDEVYLLCDKVQKDDIEVRFYEDDENGWQAFGDFSPTDVHKQYAIVFRTPPYHKMKIE
RPVTVFLQLKRKRGGDVSDSKQFTYYPLVEDKEEVQRKRRKALPTFSQPFGGGSHMGGGSGGAAGGYGGAGGGGS
LGFFPSSLAYSPLYQSGAGPMRCYPGGGGGAQMAATVPSRDSGEEAAEPSAPSRTPQCEPQAPPEMLQRAREYNARL
FGLAHAAPSPTRLLRHRGRRALLAGQRHLLTAQDENGDTPLHLAI IHGQTSVIEQIVYVIHHAQDLGVNLTNHL
HQTPLHLAVITGQTSVVSFLLRVGADPALLDRHGDSAMHLALRAGAGAPELLRALLQSGAPAVPQLLHMPDFEGL
YPVHLAVRARSPECLDLLVDSGAEEVATERQGGRTALHLATEMEELGLVTHLVTKLRANVNARTFAGNTPLHLAA
GLGYPTLTRLLLKAGADIHAENEEPLCPLPSPPTSDSDSDSEGPEKDRSSFRGHTPLDLTCSTLVKTLNNAQ
NTMEPLTPPSPAGPGLSLGDTALQNLQQLLDGPEAQGSWAELAERLGLRSLVDTYRQTTSPPSGSLLRSYELAGG
DLAGLLEALSMDGLEEGVRLLRGPETRDKLPSTEVKEDSAYGSQSVEQEAELGPPPEPPGGLSHGHPQPQVTDL
LPAPSPLPGPPVQRPHLFQILFNTPHPLSWDK

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FIGURE 826

GGGGGTGGGAAGAGCTGAAGCAGGCGCTCTTGGCTCGGCGCGGCCCGCTGCAATCCGTGGAGGAACGCGCCGCCG
AGCCACCATCATGCCTGGGCACCTTACAGGAAGGCTTCGGCTGCGTGGTCACCAACCGATTTCGACCAGTTATTTGA
CGACGAATCGGACCCCTTCGAGGTGCTGAAGGCAGCAGAGAACAAGAAAAAGAAGCCGGCGGGGGCGGCGTTGG
GGGCCCTGGGGCCAAGAGCGCAGCTCAGGCCGCGGCCAGACCAACTCCAACGCGGCAGGCAAACAGCTGCGCAA
GGAGTCCCAGAAAGACCGCAAGAACCCTGCTGCCCCCAGCGTTGGCGTGGTTGACAAGAAAGAGGAGACGCAGCC
GCCCCGTGGCGCTTAAGAAAGAAGGAATAAGACGAGTTGGAAGAAGACCTGATCAACAACCTTCAGGGTGAAGGGAA
AATAATTGATAGAAAGACCAGAAAGGCGACCACTCGTGAACGAAGATTCGAAAAGCCACTTGAAGAAAAGGGTGA
AGGAGGCGGAATTTTCAGTTGATAGACCATTATTGACCGACCTATTTCGAGGTGCTGGTGGTCTTGGAAGAGGTGCG
AGGGGGCCGTGGACGTGGAATGGGCCGAGGAGATGGATTGATTCTCGTGGCAAACGTGAATTTGATAGGCATAG
TGGAAGTGATAGATCTGGCCTGAAGCAGGAGACAAACGTGGAGGTAGCGGATCTCACAACCTGGGGAACGTGTCAA
AGACGAATTAACCTGACTTGGATCAATCAATGTGACTGAGGAAACACCTGAAGGTGAAGAACATCATCCAGTGGC
AGACACTGAAAATAAGGAGAATGAAGTTGAAGAGGTAAAAGAGGAGGGTCCAAAAGAGATGACTTTGGATGAGTG
GAAGGTATTCAAATAAGGACCGGGCAAAAGTAGAATTTAATATCCGAAAACCAAATGAAGGTGCTGATGGGCA
GTGGAAGAAGGGATTTGTTCTTCATAAATCAAAGAGTGAAGAGGCTCATGCTGAAGATTCGGTTATGGACCATCA
TTTCCGGAAGCCAGCAAATGATATAACGTCTCAGCTGGAGATCAATTTTGGAGACCTTGGCCGCCCAGGACGTGG
CGGCAGGGGAGGACGAGGTGGACGTGGCGTGGTGGCGCCCAAACCGTGGCAGCAGGACCGACAAGTCAAGTGC
TTCTGCTCCTGATGTGGATGACCCAGAGGCATTCCCAGCTCTGGCTTAACTGGATGCCATAAGACAACCCCTGGTT
CCTTTGTGAACCCCTTCTGTTCAAAGCTTTTGCATGCTTAAGGATTCCAAACGACTAAGAAATTAAGGAGGAGG
ACTGTCATTTCATACCATTACACCTAAAGACTGAATTTTATCTGTTTTAAATGAACCTTCTCCGCTACACAGA
AGTAACAAATATGGTAGTCAGTTTTGTATTTAGAAATGTAATGGTAGCAGGGATGTTTTATAATTTTCAGAGAT
TATGCATTCTTCATGAATACTTTTGTATTGCTGCTTGCAAATATGCATTTCCAACTTGAAATATAGGTGTGAAC
AGTGTGTACCAGTTTAAAGCTTTCACCTCATTGTGTTTTTAAATTAAGGACTTAGAAGTTCCCCCAATTACAAA
CTGGTTTTAAATATTGGACATACTGGTTTTAATACCTGCTTTGCATATTACACATGGTCAACTGGGACATGTTA
AACTTTGATTTGTCAAATTTTATGCTGTGTGGAATACTAATAATATGATTTTAACTTAGTTTTAATATTTTCAT
TTTGGGGGAAAAATCTTTTTTCACTTCTCATGATAGCTGTTATATATATATGCTAAATCTTTATATACAGAAATA
TCAGTACTTGAACAAATTCAAAGCACATTTGGTTTATTAACCCCTGCTCCTTGCATGGCTCATTAGGTTCAAAT
ATAACTAATTTACATTTTCAGCTATATTTACTTTTTAAATGCTTGAGTTTCCCATTTTAAATCTAACTAGACA
TCTTAATTGGTGAAAGTTGTTTAACTACTTATTGTTGGTAGGCACATCGTGTCAAGTGAAGTAGTTTTATAGGT
ATGGGTTTTTCTCCCCCTTCACCAGGGTGGGTGGAATAAGTTGATTGGCCAATGTGTAATATTTAACTGTTC
TGTAATAATAAAAAAAAAAAAAAAAAA

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FIGURE 827

MPGHLQEGFGCVVTNRFDQLFDDESDPFEVLKAAENKKKEAGGGGVGGPGAKSAAQAAAQTSNAAGKQLRKESQ
KDRKNPLPPSVGVVDKKEETQPPVALKKEGIRRVGRRPDQQLQGEKGKIIDRRPERRPPRERRFEKPLEEKGEgge
FSVDRPIIDRPIRGRGGLGRGRGGRGRGMGRGDGFD SRGKREFDRHSGSDRSLKHEDKRGGSGSHNWGTVKDEL
TDLDQSNVTEETPEGEEHHPVADTENKENEVEEVKEEGPKEMTLDEWKAIQNKDRAKVEFNIRKPNEGADGQWKK
GFVLHKSKEEHAEDSVMDHHRKPANDITSQLEINFGDLGRPGRGGRGGRGGRGGRPNRGSRTDKSSASAP
DVDDPEAFPALA

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FIGURE 828

CTGTGCTGTAAAAACAAGAGTAACATTTTTATATTAAAGTTAAATAAAGTTACAACCTTGAAGAGAGTTTCTGCA
AGACATGACACAAAGCTGCTAGCAGAAAAATCAAACGCTGATTAAAAAGAAGCACGGTATGATGACCAAACATAAA
AAGTGTTTTATAATTGTTGGTGTTTTAATAACAATAATATTATTACTCTGATAGTTAACTAACTCGAGATTCT
CAGAGTTTATGCCCTATGATTGGATTGGTTTCCAAAACAAATGCTATTATTTCTCTAAAGAAGAAGGAGATTGG
AATTCAAGTAAATACAACCTGTTCCACTCAACATGCCGACCTAACTATAATTGACAACATAGAAGAAATGAATTTT
CTTAGGCGGTATAAATGCAGTTCTGATCACTGGATTGGACTGAAGATGGCAAAAAATCGAACAGGACAATGGGTA
CATGGAGCTACATTTACCAAATCGTTTGGCATGAGAGGGAGTGAAGGATGTGCCTACCTCAGCGATGATGGTGCA
GCAACAGCTAGATGTTACACCGAAAGAAAATGGATTGTCAGGAAAAGAATACACTAAGTTAATGTCTAAGATAAT
GGGGAAAATAGAAAATAACATTATTAAGTGTAACCAGCAAAGTACTTTTTTAATTAAACAAAGTTTCGAGTTT
GTACCTGTCTGGTTAATTCTGCTTACGTGTCAGGCTACACATAAAAGCCACTTCAAAGATTGGCAAAAAAAAAA
AAAAAAAAA

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FIGURE 829

MMTKHKKCFIIVGVLITTNIIITLIVKLTRDSQSLCPYDWIGFQNKCYFVSKEEGDWNSSKYNCSTQHADLTIIDN
IEEMNFLRRYKCSSDHWIGLKMAKNRTGQWVHGATFTKSFGMRGSEGAYLSDDGAATARCYTERKWICRKRIH

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FIGURE 830

CTGAAGCTTGCATGCCTGCAGGTCGACCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGTTTTTCTTTCTT
CCAGAAGGAGATTTAACCATAGTAGAAAGAATGGAGAACTATTAACTGCCTTCTTCTGTGGGCTGTGATTTTCA
GAGGGGAATGCTAAGAGGTGATTTTCAATGTTGGGACTCAAAGGTGAAGACACTGAAGGACAGAATTTTGGCAG
AGGAAAGATCTTCTTCGGTCACCATACTTGAGTTAGCTCTAGGGAAAGTGGAGGTTTCCATTGGGAATTCTATAGC
TTCTTCCAGGTCATAGTGTCTGCCCCCACCTTCCAGTATCTCCTGATATGCAGCATGAATGAAAATGGCAAGTT
TCCTGGCCTTCTTCTGCTCAACTTTCTGTGTCTGCCCTCTTTTGCTTCAGCTGCTCATGCCTCACTCAGCTCAGT
TTTCTGTGCTTGGACCCTCTGGGCCCATCTGGCCATGCTGGGTGAAGACGCTGATCTGCCCTGTACCTGTTCC
CGACCATGAGTGCAGAGACCATGGAGCTGAAGTGGGTGAGTTCCAGCCTAAGGCAGGTGGTGAACGTGTATGCAG
ATGGAAGGAAGTGGGAAGACAGGCAGAGTGCACCGTATCGAGGGAGAAGTTTCGATTCTGCGGGATGGCATCACTG
CAGGGAAGGCTGCTCTCCGAATACACAACGTACAGCCTCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATG
GTGACTTCTATGAAAAAGCCCTGGTGGAGCTGAAGTTGCAGCACTGGGTTCTGATCTTCACGTTGATGTGAAGG
GTTACAAAGGATGGAGGGATCCATCTGGAGTGCAGGTTCCACTGGCTGGTACCCCCAACCCCAAATACAGTGGAGCA
ACAACAAGGGAGAGAACATCCCGACTGTGAAGCACCTGTGGTTGCAGACGGAGTGGGCTGTATGCAGTAGCAG
CATCTGTGATCATGAGAGGAGCTCTGGGGAGGGTGTATCCTGTACCATCAGAAGTTCCCTCCTCGGCCTGGAAA
AGACAGCCAGCATTTCCATCGCAGACCCCTTCTTCAGGAGCGCCAGAGGTGGATCGCCGCCCTGGCACGGACCC
TGCCCTGTCTTGTCTGCTGCTTCTTGGGGAGCCGGTTACTTCTGTGGCAACAGCAGGAGGAAAAAAGACTCAGT
TCAGAAAGAAAAAGAGAGAGCAAGAGTTGAGAGAAATGGCATGGAGCACAAATGAAGCAAGAACAAGCACAAGAG
TGAAGCTCCTGGAGGAAGTCAAGTGGAGAAGTATCCAGTATGCATCTCGGGGAGAGAGACATTAGCCTATAATG
AATGGAAGAAAGGCCCTCTTCAAGCCTGCGGATGTGATTCTGGATCCAAAAACAGCAAACCCCATCTCTCTGTTT
CTGAGGACCAGAGGAGTGTGCAGCGTGCCAAAGGAGCCCCAGGATCTGCCAGACAACCTGAGAGATTTAATTGGC
ATTATTGTGTTCTCGGCTGTGAGAGCTTATATCAGGGAGACATTACTGGGAGGTGGAGGTAGGGGACAGGAAAG
AGTGGCATATAGGGGTGTGCAGTAAGAATGTGCAGAGAAAAGGCTGGGTCAAATGACACCTGAGAATGGATTCT
GGACTATGGGGCTGACTGATGGGAATAAGTATCGGACTCTAACTGAGCCCAGAACCAACCTGAAACTTCTTAAGC
CCCCTAAGAAAGTGGGGGTCTTCTGGACTATGAGACTGGAGATATCTCATTCTACAATGCTGTGGATGGATCGC
ATATTCTACTTCTTCTGGACGTCTCCTTCTCTGAGGCTCTATATCCTGTTTTTCAAGATTTTGACCTTGGAGCCCA
CGGCCCTGAGTATTTGTCCAGCGTGAAGAAGAAGAGAGTTTCTCCAATTCTGACCGAGTGTGATCATTCCCT
AGAGACACCACTAAGGCTTCTAGCTAACGAAAGTGGGGAGCCTCAGGCTGAAGTAACTTTTCTCTGCTTCTC
CCTGCCAGCTCAGAGCTGAGGGCTCCCCCTCCACAGCAACCAATCACAACCATAAAGCTACAAGCAGCAGCTG
AAGCACTTTACTGATACTCATTCAATTATTATATGACAGTTGTTTGTGAGTTTGGTACCATCTTATTTCCCTTAA
TACAGATAAGGAACTGGGGTGCAGAAAAGTGAATTGACTACAAAGTAGACATGACTAGTTAAACAACACAGCTGG
GATCTAAACAGCAATAACTAATTAATGGAGAACTTAAATGCTCTGAGTGTCTGTTATGAGCTTTGGTGGAT
GTCACCTCTTTAATCCTCGCAACACCCTGTGGGTAGTCTCATTAGCAAGTATGGAAGTTGAGGCAGGGCAACA
TTAAGCAACTTACATAACTCATGCAGTAATTTCTGCAGTTGGGAGATGTTTCAAGCTTCAGTCCCCGGCCCTATGGC
CGTTCTTTTCCACCCTGTTTCTTCCCCCATAGGAAGAACCACCTGTAGCCCTGAGGTTCTTTTCCAGGATGGC
TCCAGGATAAGGATCACTGTAGGTGGTTGTGGAGTTGACACCCCTGTTGACTCCTTCCAGCTGATTGTGAGAGC
CTTAGACCCAGCAGCCTTGGATTAGCTTTGCAGAGTGTCTTGGTTGAGAGAATAACCTCACCGTACCCACATGA
CACGTGATTTGGAAAGAGACTAGAGGCCACACTTGATAAATCATGGGGAACAGATGTGTTCCACCCAAACAAATGT
GATAAGTGATCATGCAGCCAGAGCCAGCCTTCTTCAATCAAGGTTTCCAGGCAGAGCAAAATACCCTAGAGATTT
TCTGTGATATAGGAAATTTGGATGAAGGGAGCTAGAAGAAATACAGGGATTTTTTTTTTTTTTAAAGATGGAGTC
TTACTCTGTTGCTAGGCTGGAGTGCAGTGGTGCGATCTCAGCTCCCTGCAACCTCCACCTCCTGGGTTCAAACAA
TTCTCCTGCCTCAGCCTCCCGAGTACTGGGAATATAGGTGCACGCCACCAACCCAAACAAATTTTGTACTTTTA
GTACAGATGAGGGTTCACTATGTTGCCAGGATGGTCTCGATCTCTTGACCTCATGATCCACCCACCTCGGTCTC
CCAAAGTGCTGGGATTACAGGCTTGAGCCACCGGTGACCGGCTTACAGGGATATTTTAAATCCCGTTATGGACT
CTGTCTCCAGGAGAGGGGTCTATCCACCCCTGCTCATTGGTGGATGTTAAACCAATATTCCTTTCAACTGCTGCC
TGCTAGGGAAAACTACTCCTCATTATCATCATTATTATTGCTCTCCACTGTATCCCTCTACCTGGCATGTGCT
TGTCAGTTCTAGTTGTTCAATAAATTTGTTAATAATGCTGAAAAAATAAATAAATAAATAAATAAATAAATAA
AA

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FIGURE 831

MKMASFLAFLLLNFRVCLLLLQLLMPHSAQFSVLGPSPILAMVGEDADLPCHLFPTMSAETMELKWSSSLRQV
VNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYL CYFQDGD FYEKALVELKVAALGSDL
HVDVKGYKDGGIHLECRSTGWYPQPQIQWSNNKGENIPTVEAPVVADGVGLYAVAASVIMRGSSGEGVSTIRSS
LLGLEKTASISIA D PFFRSAQRWIAALARTLPVLLLLLGGAGYFLWQQQEEKKTQFRKKKREQELREMAWSTMQ
EQSTRVKLLEELRWRISIYASRGERHSAYNEWKKALFKPADVILDPKTANPILLVSEDQRSVQRAKEPQDLPDNP
ERFNWHYCVLGCEFSISGRHYWEVEVGDRKEWHIGVCSKNVQRKGWVKMTPENGFWTMGLTDGNKYRTLTEPRTN
LKLKPKPKKVGFLDYETGDISFYNAVDGSHIHTFLDVSFSEALYPVFRILTLEPTALSICPA

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FIGURE 832

GACAGAGCCCGGGCCACGGAGCTCCTTGCCAGCTCTCCTCTCGCACAGCCGCTCGAACCGCTGCTGAGCCCCA
TGCCCCGCGCCACGCTCTCCGCGCCCCCAGCAATCCCCGGCTCCTGCGGGTGGCGCTGCTGCTCCTGCTCCTGG
TGGCCGCCAGCCGGCGCGCAGCAGGAGCGCCCCTGGCCACTGAACTGCGCTGCCAGTGCTTGACAGACCCTGCAGG
GAATTCACCTCAAGAACATCCAAAGTGTGAAGGTGAAGTCCCCGGACCCCACTGCGCCCCAAACCGAAGTCATAG
CCCACTCAAGAATGGGCAGAAAGCTTGTCTCAACCCCGCATCGCCCATGGTTAAGAAAATCATCGAAAAGATGC
TGAAAAATGGCAAATCCAACTGACCAGAAGGAAGGAGGAAGCTTATTGGTGGCTGTTCCCTGAAGGAGGCCCTGCC
TTACAGGAACAGAAGAGGAAAGAGAGACACAGCTGCAGAGGCCACCTGGCTTGCGCCTAATGTGTTTGAGCATACT
TTAGGAGAAGTCTTCTATTTATTTATTTATTTATTTATTTATTTGTTTGTGTTTAGAAGATTCTATGTTAATATTTTATG
TGTAATAAAGGTTATGATTGAATCTACTTGACACTCTCCCATATATTTATTGTTTATTTTAGGTCAAACCCA
AGTTAGTTCAATCCTGATTCATATTTAATTTGAAGATAGAAGGTTTGCAGATATTCTCTAGTCATTTGTTAATAT
TTCTTCGTGATGACATATCACATGTCAGCCACTGTGATAGAGGCTGAGGAATCCAAGAAAATGGCCAGTAAGATC
AATGTGACGGCAGGGAATGTATGTGTGTCTATTTTGTAACTGTAAAGATGAATGTCAGTTGTTATTTATTGAAA
TGATTTACAGTGTGTGGTCAACATTTCTCATGTTGAAGCTTTAAGAACTAAAATGTTCTAAATATCCCTTGGCA
TTTTATGCTTTTCTTGTAAGATACTGCCTTGTTTAATGTTAATTATGCAGTGTTCCCTCTGTGTTAGAGCAGAG
AGGTTTCGATATTTATTGATGTTTTACAAAGAACAGGAAAATAAAATATTTAAAAATAT

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FIGURE 833

MARATLSAAPSNPRLLRVALLLLLLVAASRRRAAGAPLATELRCQCLQTLQGIHLKNIQSVKVKSPGPHCAQTEVI
ATLKNGQKACLNPA SP MVKKIIEKMLKNGKSN

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FIGURE 834

CAAATCCGTGCTCCTAGATTTGCAGGTTCTGATACTGTGGTTTCGAGCTACACTCGCCGCCTGGGCAGACACTCGT
CCAAACCACTGGAGTGTGCTGGTGATCGCAGCCAGCCCTTCGCCTCTCCATGAACCCGTGAGCCTGGGGCAGGTG
CCAGGCCGATGGCGCGGCCTGTGAGCGACAGGACCCCGGCCCTCTGCTGCTGGGCGGCCCGGCCGGACACCCCC
TGCGGGGGGAGCGCTGCTTGGGTTGCGGAGCCTTCTGCAGGGGACCAGCAAGCCCAAAGAGCCGGCCAGCTGTCT
CCTGAAGGAAAAGGAGCGCAAGGCGGCCCTGCCTGCAGCCACAACCCCTGGGCCAGGCCTGGAGACTGCGGGCCC
GGCGGATGCCCCGGCTGGGGCAGTGGTGGGCGGAGGGTCCCCGCGGGGGCGCCCGGGGCGGTGCCCGCCCCGGG
TCTGTTGGCGCCACTGCTGTGGGAGCGCAGCTGCCGTTTCGGCGATGTGGAGTACGTAGACCTGGACGCCTTCTT
GCTGGAGCACGGGCTCCCGCCAGCCCGCCGCCCGCCCGGTGGCCCGTCCGCGGAGCCGTGCGCCGCGCGGACGCC
CGCACCTTCCCCAGGGCCGGGTTCTGTGCGGCTCGGCTTCCCCCGCTCCTCTCTGGGCACGCCCCCGCCGGGC
TGCCCTCGGGACCGCCACGGGCCACCGCGCAGGCCTGACCTCTCGGGACACACCCAGCCCTGTGGACCCAGACAC
CGTGGAGGTGTTGATGACCTTTGAACCCGACCCAGCTGATCTTGCCCTATCAAGCATTCTGGCCACGAGACCTT
TGACCCTCGAAGACATCGCTTCTCAGAAGAGGAACTTAAGCCCCAGCCAATCATGAAGAAGGCAAGAAAAATCCA
GGTGCCGAGGAGCAGAAGGATGAGAAATACTGGAGCCGGCGGTACAAGAACAACGAGGCAGCCAAGCGGTCCCG
TGACGCCCCGCGGCTCAAGGAGAACCAGATATCGGTGCGGGCGGCCTTCTGGAGAAGGAGAACGCCCTGCTGCG
GCAGGAAGTTGTGGCCGTGCGCCAGGAGCTGTCCACTACCGCGCCGTGCTGTCCCGATACCAGGCCACGACGG
GGCCCTGTGAGGCTGCCCCACATCCCCACCTGGCAGGCGTCTCCTCCGCTTGCTGAGACTTACGCCCTGTTCCCT
TCCTGCCCTGTGCCACGGGCCGGCCAGCTGGGTGCCCCAGGGACGTGATAATGCAGATAAATACATTTATATT
TTAAGAAAAAGCGAGCCTCCCCCTCTTGCGGGGGCGGGGAGGGTTCTCTGTGTGTCCCCGGCACGTGAGGGACC
CTATCCTCCACCGCTCCGTAAACACGATCCTGAATAAATCTTGAGAACCCC

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FIGURE 835

MARPVSDRTPAPLLLGGFAGTPFGGGALLGLRSLQGTSPKPEPASCLLKEKERKAALPAATTGPGLETAGPAD
APAGAVVGGGSPRGRPGVPAPGLLAPLLWERTLPFGDVEYVDLDAFLLEHGLPPSPPPPGGPSPEPSPARTPAP
SPGPGSCGSASPRSSPGHAPARAALGTATGHRAGLTSRDTPSPVDPDTVEVLMTFEPDPADLALSSIPGHETFDP
RRHRFSEEELKPQPIIMKKARKIQVPEEQKDEKYWSRRYKNNEAAKRSRDARRLKENQISVRAAFLEKENALLRQE
VVAVRQELSHYRAVLSRYQAQHGAL

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FIGURE 836

AGACTCAACAAGAGCTCCAGCAAAGACTTTTCACTGTAGCTTGACCTGAGATTAACTAGGGAATCTTGAGA
ATAAAGATGAGCTCTGAAAATTGTTTCGTAGCAGAGAACAGCTCTTTCATCCGGAGAGTGACAAAGAAAATGAT
GCCACCAGTCCCCATTTCTCAACACGTCATGAAGGGTCCTTCCAAGTTCCTGTCTGTGTGCTGTAATGAATGTG
GTCTTCATCACCATTTTAATCATAGCTCTCATTGCCTTATCAGTGGGCCAATACAATTGTCCAGGCCAATACACA
TTCTCAATGCCATCAGACAGCCATGTTTCTTCATGCTCTGAGGACTGGGTGGCTACCAGAGGAAATGCTACTTT
ATTTCTACTGTGAAGAGGAGCTGGACTTCAGCCCCAAAATGCTTGTCTGAACATGGTGCTACTCTTGCTGTCTATT
GATTCTGAAAAGGACATGAACTTTCTAAAACGATACGCAGGTAGAGAGGAACACTGGGTGGACTGAAAAAGGAA
CCTGGTCACCCATGGAAGTGGTCAAATGGCAAAGAATTTAACAACCTGGTTCAACGTTACAGGGTCTGACAAGTGT
GTTTTCTGAAAAACACAGAGGTCAGCAGCATGGAATGTGAGAAGAATTTATACTGGATATGTAACAAACCTTAC
AAATAAATAAGGAAACATGTTCACTTATTGACTATTATAGAATGGAACCTCAAGGAAATCTGTGTGCTGGATGCTG
CTCTGTGGTCCGAAGTCTTCCATAGAGACTTTGTGAAAAAAATTTTATAGTGTCTTGGGAATTTTCTTCCAAAC
AGAACATATGGAAAAAAAGGAAGAAATTCAGGAAAATCTGCACGTGTTGGCTTTTATTGCCATGAGCTAGAAGCAT
CACAGGTTGACCAATAACCATGCCCCAAGAATGAGAAGAATGACTATGCAACCTTTGGATGCACTTTATATATTT
TGAATCCAGAAATAATGAAATAACTAGGCGTGGACTTACTATTTATTGCTGAATGACTACCAACAGTGAGAGCCC
TTCATGCATTTGCACTACTGGAAGGAGTTAGATGTTGGTACTAGATACTGAATGTAAACAAAGGAATTATGGCTG
GTAACATAGGTTTTTAGTCTAATTGAATCCCTTAAACTCAGGGAGCATTATATAAATGGACAAATGCTTATGAAAC
TAAGATTTGTAATATTTCTCTCTTTTTAGAGAAATTTGCCAATTTACTTTGTTATTTTTCCCCAAAAGAATGGG
ATGATCGTGATTTATTTTTTTTACTTCCCTCAGCTGTAGACAGGTCCTTTTCGATGGTACATATTTCTTTGCCTT
ATAATCTTTTATACAGTGTCTTACAGAGAAAAGACATAAGCAAAGACTATGAGGAATATTGCAAGACATAGAAT
AGTGTGGGAAATGTGCAATATGTGATGTGGCAAATCTCTATTAGGAAATATTCTGTAATCTTCAGACCTAGAAT
AATACTAGTCTTATAATAGGTTTGTGACTTTCCTAAATCAATTCTATTACGTGCAATACTTCAATACTTCATTTA
AAATATTTTTATGTGCAATAAAATGTATTTGTTGTATTTGTGTTTCAGTACAATTATAAGCTGTTTTTATATAT
GTGAAATAAAAGTAGAATAAACACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 837

MSSENCFAENSSLHPESGQENDATSPHFSTRHEGSFQVPVLCVMMNVFITILIIALIALSVGQYNCPGQYTFS
MPSDSHVSSCEDWVG YQRKCYFISTVKRSWTS AQNACSEHGATLAVIDSEKDMNFLKRYAGREEHWGLKKEPG
HPWKWSNGKEFNW FNV TGSDKCVFLKNTEVSSMECEKNLYWICNKPYK

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FIGURE 838

GGGCAAGAGTTGGGCAAAAAAATCAAGGTATTTGGTCCCGGAACAAAGCTTATCATTACAGATAAACAACCTTGAT
GCAGATGTTTCCCCAAGCCCCTATTTTTCTTCCTTCAATTGCTGAAACAAAGCTCCAGAAGGCTGGAACATAC
CTTTGTCTTCTTGAGAAATTTTTCCCTGATGTTATTAAGATACATTGGCAAGAAAAGAAGAGCAACACGATTCTG
GGATCCCAGGAGGGGAACACCATGAAGACTAACGACACATACATGAAATTTAGCTGGTTAACGGTGCCAGAAAAG
TCACTGGACAAAGAACACAGATGTATCGTCAGACATGAGAATAATAAAAAACGGAGTTGATCAAGAAATTATCTTT
CCTCCAATAAAGACGGATGTCATCACAATGGATCCCAAAGACAATTGTTCAAAAGATGCAAATGATACACTACTG
CTGCAGCTCACAAACACCTCTGCATATTACATGTACCTCCTCTGCTCCTCAAGAGTGTGGTCTATTTTGCCATC
ATCACCTGCTGTCTGCTTAGAAGAACGGCTTTCTGCTGCAATGGAGAGAAATCATAACAGACGGTGGCACAAAGGA
GGCCATCTTTTCTCATCGGTTATTGTCCCTAGAAGCGTCTTCTGAGGATCTAGTTGGGCTTTCTTTCTGGGTTT
GGGCCATTTTCAGTTCTCATGTGTGTACTATTCTATCATTATTGTATAACGGTTTTCAAACCAGTGGGCACACAGA
GAACCTCACTCTGTATAATAACAATGAGGAATAGCCACGGCGATCTCCAGCACCAATCTCTCCATGTTTTCCACAGC
TCCTCCAGCCAACCCAAATAGCGCCTGCTATAGTGTAGACATCCTGCGGCTTCTAGCCTTGTCCCTCTCTTAGTG
TTCTTTAATCAGATAACTGCCTGGAAGCCTTTCATTTTACACGCCCTGAAGCAGTCTTCTTTGCTAGTTGAATTA
TGTTGGTGTGTTTTTCCGTAATAAGCAAAATAAATTTAAAAAATGAAAAGTT

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FIGURE 839

MQMFPPSPLFFFLQLLKQSSRRLEHTFVFLRNFSMLLLRYIGKKRRATRFWDPRRGTP

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FIGURE 840

GGCTCCTTCGGGAAACCCAGCCCCGTCACCGGGCTCCGAGCGGCTCGCAGGCGAGCGACAGCGGCCTCAGCCCCG
GCAGCGCCCGAGCGGGCGGCTGCGGAAAGCGGAGGGAGTCCGACGCGGGCGCGGGCGGGGAGCGTGCGTCCGTTTCGC
ACAGGCAGCGGGAGGAGGGGCGGCGGAACCATGGCCGGGGACAGCGAGCAGACCCTGCAGAACCACCAGCAGCC
CAACGGCGGCGAGCCCTTCCTTATAGGCGTCAGCGGGGGAACAGCTAGCGGCAAGTCTTCGGTGTGTGCTAAGAT
CGTGCACTCCTGGGGCAGAATGAGGTGGACTATCGCCAGAAGCAGGTGGTCATCCTGAGCCAGGATAGCTTCTA
CCGTGTCTTACCTCGGAGCAGAAGGCCAAAGCCCTGAAGGGCCAGTTCAACTTTGACCACCCGGATGCCTTTGA
CAATGAACCTATTCTCAAAACACTCAAAGAAATCACTGAAGGGAAAACAGTCCAGATCCCCGTGTATGACTTTGT
CTCCCATTCGGAAGGAGGAGACAGTTACTGTCTATCCCGCAGACGTGGTGCTCTTTGAAGGGATCCTGGCCTT
CTACTCCAGGAGGTACGAGACCTGTTCCAGATGAAGCTTTTTGTGGATACAGATGCGGACACCCGGCTCTCAGC
CAGAGTATTAAGGGACATCAGCGAGAGAGGCAGGGATCTTGAGCAGATTTTATCTCAGTACATTACGTTTCGTCAA
GCCTGCCTTTGAGGAATTCTGCTTGCCAACAAAGAAGTATGCTGATGTGATCATCCCTAGAGGTGCAGATAATCT
GGTGGCCATCAACCTCATCGTGACGACATCCAGGACATCCTGAATGGAGGGCCCTCCAAACGGCAGACCAATGG
CTGTCTCAACGGCTACACCCCTTCACGCAAGAGGCAGGCATCGGAGTCCAGCAGCAGGCCGCGCATTGACCCCGTCTC
CATCGGACCCAGCCCTATCTCCAAGAGACAGAGGAGGGGTGAGGAGGCACTGCTCATCTGTACATACTGTTTC
CTATGACATTACTGTATTTAAGAAAAACCATGGAGATGAAATGCCTTTGATTTTTTTTTTCTTTTGTACTTTG
GAACGACAAAATGAAACAGAACTTGACCCTGAGCTTAAATAACAAAACGTGCGCACTACTACTGGTGATGCCTA
ATTATGAATCCAACGTGTAACCAGTTATAAATACATATATATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 841

MAGDSEQTLQNHQQPNNGGEPFLIGVSGGTASGKSSVCAKIVQLLGQNEVDYRQKQVVILSQDSFYRVLTSEQKAK
ALKGQFNFDHPDAFDNELILKTLKEITEGKTIVQIPVYDFVSHSRKEETVTVYPADVVLFEGLAFYSQEVRLDFQ
MKLFVDTADTRLSSRRVLRDISERGRDLEQILSQYITFVKPAFEEFCLPTKKYADVIIIPRGADNLVAINLIVQHI
QDILNGGPSKRQTNGCLNGYTPSRKRQASESSSRPH

TGCTTAAAAAAACACAGAGGATTTTCGGAAGATCCTTTCTTTAGAAAACAAACAAAAAACCTAAACAAAAACGTA
 CTTTCTCCCCACTAGTTTACACACAGGAAGCGAGAGAGCTGCTGCCACTGCTGCTACCACAGGAAGACACAGCA
 GGGAGAAGCCCTAGTGTCTCTGCCGGCTGCCAGGACCTGGTATCGGGCCACAGACCAAGTCTCCACAGAGGGC
 GAGCCAGGGTGGAGAAGAGCCAGCCCAGTGACCCAAACATCCCCGATAAAACACCCACTGCTTAAGAGGCAGGCT
 CGGATGGACTATAGCTTTTGATACCACAGCCGAAGACCCCTTGGGTTAGGATTTCTGACTGCATCAAAACTTATTT
 AGCCCCATCATGAGTGAGAACCATGGCCACATGCCTCTACAGCCCAATGCCAGCCTGAATGAAGAAGAAGGGACA
 CAGGGCCACCCAGATGGGACCCACCAAAGCTGGACACCGCCAATGGCACTCCCAAAGTTTACAAGTCAGCAGAC
 AGCAGCACTGTGAAGAAAGGTCTCTCTGTGGCTCCCAAGCCAGCCTGGTTTTCGCCAAAGCTTGAAAGGTTTTGAGG
 AATCGTGCTTCAGAGCCAAGAGGGCTCCCTGATCCTGCCTTGTCCACCCAGCCAGCACCTGCTTCCAGGGAGCAC
 CTAGGATCACACATCCGGGCTCTCTCTCTCTCTCTCCATCAGGCAGAGAATCAGCTCCTTTGAAACCTTTGGC
 TCCTCTCAACTGCCTGACAAAGGAGCCCAGAGACTGAGCCTCCAGCCCTCTCTGGGGAGGCAGCAAAACCTCTT
 GGGAAAGCATGAGGAAGGACGGTTTTCTGGACTCTTGGGGCGAGGGGCTGCACCCACTCTTGTGCCCCAGCAGCCT
 GAGCAAGTACTGTCTCGGGGTCCCTGCAGCCTCCGAGGCCAGAGACCCAGGTGTGTCTGAGTCCCTCCCCCA
 GGGCGGCAGCCCAATCAGAAAACCTTTCCCCCTGGCCCGGACCCGCTCCTAAGGCTGCTGTCAACACAGGCTGAG
 GAATCTCAAGGCCAGTGCTCAAGATGCCTAGCCAGCGAGCACGGAGCTTCCCCCTGACCAGGTCCCAGTCTCTGT
 GAGACGAAGCTACTTGACGAAAAGACCAGCAAACCTCTATCTATCAGCAGCCAAGTGTATCGGCTGTCTATGAAA
 TCCTTGCTGTGCCTTCCATCTTCTATCTCTGTGCCAGACTCCCIGCATCCCCAAGGCAGGGGCATCTCCAACA
 TCATCATCCAACGAAGACTCAGCTGCAAAATGTTCTGTGAAACATCTGCCTTGGACACGGGGTTCTCGCTCAAC
 CTTTCAGAGCTGAGAGAATATACAGAGGGTCTCACGGAAGCCAAGGAAGACGATGATGGGGACCACAGTTCCCTT
 CAGTCTGGTCAGTCCGTTATCTCCCTGCTGAGCTCAGAAGAAATTAAAAAAATCATCGAGGAGGTGAAGGTTCTG
 GATGAAGCAACATTAAAGCAATTAGACGGCATCCATGTACCATCTTACACAAGGAGGAAGGTGCTGGTCTTGGG
 TTCAGCTTGGCAGGAGGAGCAGATCTAGAAAACAAGGTGATTACGGTTCACAGAGTGTTTCCAATGGGCTGGCC
 TCCAGGAAGGGACTATTAGAAAGGGCAATGAGGTTCTTTCCATCAACGGCAAGTCTCTCAAGGGGACCACGCAC
 CATGATGCCTTGGCCATCTCCGCCAAGCTCGAGAGCCCAGGCAAGCTGTGATTGTACAAGGAAGCTGACTCCA
 GAGGCCATGCCCGACCTCAACTCCTCCACTGACTCTGCAGCCTCAGCCTCTGCAGCCAGTGATGTTTCTGTAGAA
 TCTACAGCAGAGGCCACAGTCTGCACGGTGACACTGGAGAAGATGTCCGCAGGGCTGGGCTTCAGCCTGGAAGGA
 GGGAAAGGGCTCCCTACACGGAGACAAGCCTCTCACCATTAAACAGGATTTTCAAAGGAGCAGCCTCAGAACAAAGT
 GAGACAGTCCAGCCTGGAGATGAAATCTTGACAGCTGGGTGGCACTGCCATGCAGGGCCTCACACGGTTTGAAGCC
 TGGAACATCATCAAGGCACTGCCTGATGGACCTGTACGATTGTCTATCAGGAGAAAAAGCCTCCAGTCCAAGGAA
 ACCACAGCTGCTGGAGACTCTTAGGCAGGACATGCTGAAGCCAAAGCCAATAACACACAGCTAACACACAGCTCC
 CATAACCGCTGATTCTCAGGGTCTCTGCTGCCGCCCCACCAGATGGGGGAAAGCACAGGTGGGCTTCCCAGTGG
 CTGCTGCCAGGCCAGACCTTCTAGGACGCCACCCAGCAAAAGGTTGTCTCTAAAATAGGGCAGAGTCAACAT
 GGGGCAGCTGATACAAATTGCAGACTGTGTAAAAAGAGAGCTTAAATGATAATATTGTGGTGCCACAAATAAAATG
 GATTTATTAGAATTCATATGACATTCATGCCCTGGCTTCGCAAAAATGTTTCAAGTACTGTAAGTGTGTCATGATT
 CACCCCCAAACAGTGACATTTATTTTCTCATGAATCTGCAATGTGGGCAGAGATTGGAATGGGCAGCTCATCTC
 TGTCCCCTTTGGCATCAGTGGCGCTCATGCAAAGTCATGCAAAGGCTGGGACCACCTGAGATCATTCACTCATA
 ATCTGACCGGTTGATGTTGGCTGGGAACTCACCTGGGGCTGCTGGCCTGAATGCTTATAGGTGGCCTCTCCTTGTG
 CCCTGGGCTCCTCACAACATGGTGTCTGGATTCCAGGATGAGCATCCAGGATCGCAAGAGCCACGTAGAAGCT
 GCATCTTGTTTATACCTTTGCCTTGGAAAGTTGCATGGCATCACTCCACCATACTCCATCAGTTAGAGCTGACAC
 AAACCTGCTTGGGTTTTAAGGGGAGAGGAAATATTGCTGGGGTCATTTATGAAAAATACAGTTTGTACATGAAAC
 ATTTGCAAAATTGTTTTTGGTTGGATTGGAGAAGTAATCCTAGGGAAGGGTGGTGGAGCCAGTAAATAGAGGAGT
 ACAGGTGAAGCACCAGCTCAAAGCGTGGACAGGTGTGCCGACAGAAGGAACCAGCGTGTATATGAGGGTATCA
 AATAAAATTGCTACTACTTACCTACC

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FIGURE 843

MDYSFDTTAEDPWVRISDCIKNLFSPIMSENHGHMPLQPNASLNEEEGTQGHDPGTPPKLDTANGTPKVYSADS
STVKKGPPVAPKPAWFRQSLKGLNRASEPRGLPDPALSTQAPASREHLGSHIRASSSSSSIRQRISSEFETFGS
SQLPDKGAQRLSLQPSSGEAAKPLGKHEEGRFSGLLGRGAAPTLVPQQPEQVLSSGSPAASEARDPGVSESPPPG
RQPNQKTFPPGPDLLRLLSTQAEESQGPVLKMPQSQRARSFPLTRSQSCETKLLDEKTSKLYSISSQVSSAVMKS
LLCLPSSISCAQTPCIPKAGASPTSSSNEDSAANGSAETSALDTGFSNLSELREYTEGLTEAKEDDDGDHSSLQ
SGQSVISLLSSEELKKLIEEVKVLDEATLKQLDGIHVTLHKEEGAGLGFSLAGGADLENKVITVHRVFPNGLAS
QEGTIQKGNEVLSINGKSLKGTTHDALAILRQAREPRQAVIVTRKLTPEAMPDLNSSTDASAASASADVSVES
TAEATVCTVTLEKMSAGLGFSLGEGKSLHGDKPLTINRIFKGAASEQSETVQPGDEILQLGGTAMQGLTRFEAW
NIIKALPDGPVTIVIRRKSLQSKETTAAGDS

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FIGURE 844

TGCTTAAAAAACACAACAGGATTTTCGAAGAATCCTTTCTTAGAAAACAAACAAAAAACCAAACAAAAACGTA
CTTTCTCCCCACTAGTTTACACCACAGGAAGCGAGAGAGCTGCTGCCACTGCTGCTACCCACAGGAAGACACAGCA
GGGAGAAGCCCTAGTGCCCTCTGCCGGCTGCCAGGACCTGGTATCGGCCACAGACCAAGTCTCCACAGAGGGC
GAGCCAGGGTGGAGAAGAGCCAGCCAGCCAGTGAACCAACATCCCCGATAAAACACCCACTGCTTAAGAGGCAGGCT
CGGATGGACTATAGCTTTGATACACAGCCGAAGACCCTTGGGTIAGGATTTCTGACTGCATCAAAAACCTTATTT
AGCCCCATCATGAGTGAGAACCATGGCCACATGCCTCTACAGCCCAATGCCAGCCTGAATGAAGAAGAAGGGACA
CAGGGCCACCCAGATGGGACCCCAACAAAGCTGGACACCGCCAATGGCACTCCCAAAGTTTACAAGTCAGCAGAC
AGCAGCACTGTGAAGAAAGGTCTCTCTGTGGCTCCCAAGCCAGCCTGGTTTCGCCAAAGCTTGAAAGTTTGAGG
AATCGTGCTTCAGAGCCAAGAGGGCTCCCTGATCCTGCCTTGTCCACCCAGCCAGCACCTGCTTCCAGGGAGCAC
CTAGGATCACACATCCGGGCTCCTCCTCCTCCTCCTCCATCAGGCAGAGAATCAGCTCCTTTGAAACCTTTGGC
TCCTCTCAACTGCCTGACAAAGGAGCCAGAGACTGAGCCTCCAGCCCTCCTCTGGGGAGGCAGCAAAACCTCTT
GGGAAGCATGAGGAAGGACGGTTTTCTGGACTCTTGGGGCGAGGGGCTGCACCCACTCTGTGCCCCAGCAGCCT
GAGCAAGTACTGTCTCGGGTCCCCTGCAGCCTCCGAGGCCAGAGACCCAGGTGTGTCTGAGTCCCCTCCCCCA
GGGCGGACGCCCAATCAGAAAACCTTTCCCCCTGGCCCGGACCCGCTCCTAAGGCTGCTGTCAACACAGGCTGAG
GAATCTCAAGGCCAGTGCTCAAGATGCCTAGCCAGCGAGCACGGAGCTTCCCCCTGACCAGGTCCCAGTCTGT
GAGACGAAGCTACTTGACGAAAAGACCAGCAAACCTCTATTCTATCAGCAGCCAAGTGTCTCGGCTGTATGAAA
TCCTTGCTGTGCCTTCCATCTTCTATCTCTGTGCCAGACTCCCTGCATCCCCAAGGCAGGGGCATCTCCAACA
TCATCATCCAACGAAGACTCAGCTGCAATGGTTCTGTGTAACATCTGCCTTGGACACGGGGTTCTCGCTCAAC
CTTTCAGAGCTGAGAGAATATACAGAGGGTCTCACGGAAGCCAAGGAAGACGATGATGGGGACCACAGTTCCCTT
CAGTCTGGTCAGTCCGTTATCTCCCTGCTGAGCTCAGAAGAATAAAAAACTCATCGAGGAGGTGAAGTTCTG
GATGAAGCAACATTAAAGCAATTAGACGGCATCCATGTACCATCTTACACAAGGAGGAAGGTGCTGGTCTTGGG
TTCAGCTTGGCAGGAGGAGCAGATCTAGAAAACAAGGTGATTACGGTTCACAGAGTGTTCCAAATGGGCTGGCC
TCCCAGGAAGGGACTATTGAGAAGGGCAATGAGGTCTTTCCATCAACGGCAAGTCTCTCAAGGGGACCACGCAC
CATGATGCCTTGGCCATCTCCGCCAAGCTCGAGAGCCAGGCAAGCTGTGATTGTACAAGGAAGCTGACTCCA
GAGGCCATGCCCCACCTCAACTCCTCCACTGACTCTGCAGCCTCAGCCTCTGCAGCCAGTGATGTTTTCTGTAGAA
TCTACAGCAGAGGCCACAGTCTGCACGGTGACACTGGAGAAGATGTGGCAGGGCTGGGCTTACGCCTGGAAGGA
GGGAAGGGCTCCCTACACGGAGACAAGCCTCTCACCATTAAAGGATTTTCAAAGGAGCAGCCTCAGAACAAAGT
GAGACAGTCCAGCCTGGAGATGAAATCTTGACGTGGGTGGCACTGCCATGCAGGGCCTCACACGGTTTTGAAGCC
TGGAACATCATCAAGGCACTGCCTGATGGACCTGTACGATTGTCTATCAGGAGAAAAAGCCTCCAGTCCAAGGAA
ACCACAGCTGCTGGAGACTCCTAGGCAGGACATGCTGAAGCCAAAGCCAATAACACACAGCTAACACACAGCTCC
CATAACCGCTGATTCTCAGGGTCTCTGCTGCCGCCCCACCCAGATGGGGGAAAGCACAGGTGGGCTTCCCAGTGG
CTGCTGCCCAGGCCAGACCTTCTAGGACGCCACCCAGCAAAAGGTTGTTTCTAAAAATAAGGGCAGAGTCACACT
GGGGCAGCTGATACAAATTGCAGACTGTGTAAAAAGAGAGCTTAATGATAATATTGTGGTGCCACAAATAAATG
GATTTATTAGAATTCCATATGACATTATGCCTGGCTTCGCAAAATGTTTCAAGTACTGTAACGTGTGTATGATT
CACCCCCAAACAGTGACATTTATTTTTCTCATGAATCTGCAATGTGGGCAGAGATTGGAATGGGCAGCTCATCTC
TGTCACCACTTGGCATCAGCTGGCGTCATGCAAGTCAAGGCTGGGACCACTGAGATCACTCACTCATAC
ATCTGGCCGTTGATGTTGGCTGGGAACCTACCTGGGGCTGTGGCCTGAATGCTTATAGGTGGCCTCTCCTTGTG
GCCTGGGCTCCTCACAACATGGTGTCTGGATTCCCAGGATGAGCATCCCAGGATCGCAAGAGCCACGTAGAAGCT
GCATCTTGTTTATACCTTTGCCTTGGAAAGTTGCATGGCATCACCTCCACCATACTCCATCAGTTAGAGCTGACAC
AAACCTGCCTGGGTTTAAAGGGGAGAGGAAATATTGCTGGGGTCATTTATGAAAAATACAGTTTGTACATGAAAC
ATTTGCAAAATTGTTTTGGTTGGATTGGAGAAGTAATCCTAGGGAAGGGTGGTGGAGCCAGTAAATAGAGGAGT
ACAGGTGAAGCACCAGCTCAAAGCGTGGACAGGTGTGCCGACAGAAGGAACCAGCGTGTATATGAGGGTATCAA
ATAAAATTGCTACTACTTACCTACC

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FIGURE 845

MDYSFDTTAEDPWVRISDCIKNLFSPIMSENHGHMPLQPNASLNEEEGTQGHDPDGTPPKLDTANGTPKVYKSADS
STVKKGPPVAPKPAWFRQSLKGLRNRASEPRGLPDPALSTQAPASREHLGSHIRASSSSSSIRQRISSFETFGS
SQLPDKGAQRLSLQPSGGEAAKPLGKHEEGRFSGLLGRGAAPTLVPQQPEQVLSSGSPAASEARDPGVSESPPPG
RQPNQKTFFPPGPDPLRLRLSTQAEESQGPVLKMPSSQARARSFPLTRSQCETKLLDEKTSKLYSISSQVSSAVMKS
LLCLPSSISCAQTPCIPKAGASPTSSSNEDSAANGSAETSALDTGFSNLSELREYTEGLTEAKEDDDGDHSSLQ
SGQSVISLLSSEELKKLIEEVKVLDEATLKQLDGIHVTILHKEEGAGLGFSLAGGADLENKVITVHRVFPNGLAS
QEGTIQKGNEVLSINGKSLKGTTHDALAILRQAREPRQAVIVTRKLTPEAMPDLNSSTDASAASAASDVSVES
TAEATVCTVTLEKMSAGLGFSLGEGKSLHGDKPLTINRIFKAASEQSETVQPGDEILQLGGTAMQGLTRFEAW
NIIKALPDGPGVTIVIRRKSLQSKETTAAGDS

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FIGURE 846

AAGCAGTGGTAACAACGCAGAGTACGCGGGAAGCAGTGGTAACAACGCAGAGTACGCGGGAAGCAGTGGTAACAA
CGCAGAGTACGCGGGAAGCAGTGGTAACAACGCAGAGTACGCGGGAAGCAGTGGTAACAACGCAGAGTACGCGGG
GCCAGCGGAAGTGGCTCCTGTAAGGCAGCAAGGTAGCGTGGCCGGCGCCGAGCTGGGGTTGTGTCCCTGCTGGG
CTGCCGTTCCAGCTGGACTGCCGCCATGGAACTCAGCGCCGAATACCTCCGCGAGAAGCTGCAGCGGGACCTGGA
GGCGGAGCATGTGGAGGTGGAGGACACGACCCCTCAACCGTTGCTCCTGTAGCTTCCGAGTCCTGGTGGTGTCCGC
CAAGTTCGAGGGGAAACCGCTGCTTCAGAGACACAGGCTGGTGAACGCGTCCCTAGCAGAAGAGCTCCCGCACAT
CCATGCCTTTGAACAGAAAACCTGACCCAGACCAGTGGGCACGTGAGCGACAGAAATTGAGGGGACTGGGATCTG
CACAGCCATTAAATTATAAATCTGGACG

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FIGURE 847

MEI₁SAEYLRKQLQRDLEAEHVEEDTTLNRCSCSFRVLVVS₁AKFEGKPLLQRHRLVNACLAEEELPHIHAFEQKTL
TPDQWARERQK

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FIGURE 848

ACATACTCCACCTTCAAAAAGTACATCAATATTATATCATTAAAGGAAATAGTAACCTTCTCTTCTCCAATATGCA
TGACATTTTGGACAATGCAATTGTGGCACTGGCACTTATTTTCAGTGAAGAAAACTTTGTGGTTCTATGGCATT
CATCATTTGACAAATGCAAGCATCTTCTTATCAATCAGCTCCTATTGAACTTACTAGCACTGACTGTGGAATCC
TTAAGGGCCCCATTACATTTCTGAAGAAGAAAGCTAAGATGAAGGACATGCCACTCCGAATTCATGTGCTACTTGG
CCTAGCTATCACTACACTAGTACAAGCTGTAGATAAAAAAGTGGATTGTCCACGGTTATGTACGTGTGAAATCAG
GCCTTGGTTTACACCCAGATCCATTTATATGGAAGCATCTACAGTGGATTGTAATGATTTAGGTCTTTTAACTTT
CCCAGCCAGATTGCCAGCTAACACACAGATTCTTCTCTACAGACTAACAAATATTGCAAAAATTGAATACTCCAC
AGACTTTCCAGTAAACCTTACTGGCCTGGATTATCTCAAAACAATTTATCTTCAGTCACCAATATTAATGTAAA
AAAGATGCCTCAGCTCCTTTCTGTGTACCTAGAGGAAAACAACTTACTGAACTGCCTGAAAAATGTCTGTCCGA
ACTGAGCAACTTACAAGAACTCTATATTAATCACAACCTTGCTTTCTACAATTTACCTGGAGCCTTTATTGGCCT
ACATAATCTTCTTCGACTTCACTCAATTCAAATAGATTGCAGATGATCAACAGTAAGTGGTTTGATGCTCTTCC
AAATCTAGAGATTCTGATGATTGGGGAAAAATCCAATTATCAGAATCAAAGACATGAACCTTTAAGCCTCTTATCAA
TCTTCGCAGCCTGGTTATAGCTGGTATAAACCTCACAGAAATACCAGATAACGCCTTGGTTGGACTGGAAAACTT
AGAAAGCATCTCTTTTTACGATAACAGGCTTATTAAGTACCCCATGTTGCTCTTCAAAAAGTTGTAAATCTCAA
ATTTTTGGATCTAAATAAAAAATCCTATTAATAGAATACGAAGGGGTGATTTTAGCAATATGTACACTTAAAGA
GTTGGGGATAAATAATATGCCTGAGCTGATTTCCATCGATAGTCTTGCTGTGGATAACCTGCCAGATTTAAGAAA
AATAGAAGCTACTAACAACCTTAGATTGTCTTACATTACCCCAATGCATTTTTCAGACTCCCAAGCTGGAATC
ACTCATGTGAACAGCAATGCTCTCAGTGCCTGTACCATGGTACCATTGAGTCTCTGCCAAACCTCAAGGAAAT
CAGCATACACAGTAACCCCATCAGGTGTGACTGTGTCATCCGTGGATGAACATGAACAAAACCAACATTGATT
CATGGAGCCAGATTCACTGTTTTGCGTGGACCCACCTGAATTCGAAGTCAAGATGTTTCGGCAAGTGCATTTTCAG
GGACATGATGGAATTTGTCTCCCTCTTATAGCTCCTGAGAGCTTTCTTCTAATCTAAATGTAGAAGCTGGGAG
CTATGTTTCTTTCACTGTAGAGCTACTGCAGAACCACAGCCTGAAATCTACTGGATAACACCTTCTGGTCAAAA
ACTCTTGCTTAATACCCTGACAGACAAGTTCTATGTCCATTCTGAGGGAACACTAGATATAAATGGCGTAACCTC
CAAAGAAGGGGGTTTATATACTTGTATAGCACTAACCTAGTTGGCGCTGACTTGAAGTCTGTATGATCAAAGT
GGATGGATCTTTCCACAAGATAACAATGGCTCTTTGAATATTAAATAAGAGATATTCAGGCCAATTCAGTTTT
GGTGTCTGGAAGCAAGTTCTAAAATTCTCAAATCTAGTGTTAAATGGACAGCCTTTGTCAAGACTGAAAATTC
TCATGCTGCGCAAAGTGCTCGAATACCATCTGATGTCAAGGTATATAATCTTACTCATCTGAATCCATCAACTGA
GTATAAAATTTGTATTGATATTTCCACCATCTATCAGAAAAACAGAAAAAATGTGTAATGTCAACCACCAAGG
TTTGACCCCTGATCAAAAAGAGTATGAAAAGAATAATACCACAACACTTATGGCCTGTCTTGGAGGCCTTCTGGG
GATTATTGGTGTGATATGTCTTATCAGCTGCCTCTCTCCAGAAATGAAGTGTGATGGTGGACACAGCTATGTGAG
GAATTACTTACAGAAACCAACCTTTGCATTAGGTGAGCTTTATCCTCCTCTGATAAATCTCTGGGAAGCAGGAAA
AGAAAAAAGTACATCACTGAAAGTAAAAGCAACTGTTATAGGTTTACCAACAAATATGTCTTAAAAACCAAG
GAAACCTACTCCAAAAATGAACAAAAAAGCGAAAGACTGCAGTTGTGCTAAAAACAAAACAAAACAA
ACAACAAACAAAAAGTAAAAAAGATTACTTTTCGAGAGAGAAGTTAAGCTTCACCAATGTGCTCCTGACCA
ATGGAAATATGTACAACCTTCAGCATTTTAAAGTAACTGGCTTCAAGGGGTACTGTGGCAACCAATAAAAAATCTC
CATTTTCTAAAACCTTCATGTAACCTTTATGTCTGGACTACAGTTCAAGTGGACAAAAACATTTCTGTATTTTTT
TTAAGTAAATAAGAGTAGTTGAAGTGAAGCAATACCTCCTCTGTGTTGTATTACACATATTAGCCACGAGTTTTT
GCAGTGACCAGATAAACTTGAATTGACACGTGGTGTAAATAAATGGACAAATTCGTAGAGTAGACACAGTGAGT
ATGTGGACCTCTTTTATAAGGAAAAATACATTTTGGATTAAATCAATTGCTTCTGTCTTGTGTTTGTCTTAAAT
AAAGAATAATTTCTGGGAAAAAAGAAAAAAGAAAAA

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FIGURE 849

MKDMPLRIHVLLGLAITTLVQAVDKKVDPCRLCTCEIREPWFTPRSIYMEASTVDCNDLGLLTFFPARLPANTQILL
LQTNNIAKIEYSTDFPVNLTGLDLSQNNLSSVTNINVKKMPQLLSVYLEENKLTTELPEKCLSELSNLQELYINHN
LLSTISPGAFIGLHNLLRLHLNSNRLQMINSKWFDALPNLEILMIGENPIIRIKDMNFKPLINLRSLVIAGINLT
EIPDNALVGLENLESISFYDNRLIKVPHVALQKVNLKFDLKNPNINRIRRGDFSNNMLHLKELGINNMPELISI
DSLAVDNLPDLRKIEATNNPRLSYIHPNAFFRLPKLESMLNSNALSALYHGTIESLPNLKEISIHSPNIRCDV
IRWMNMNKTNIRFMEPDSLFCVDPPEFQGNVRQVHFRDMMEICLPLIAPESFPSNLNVEAGSYVSFHCRTAEF
QPEIYWITPSGQKLLPNTLTDKFYVHSEGTLDINGVTPKEGGLYTCIATNLVGADLKSVMIKVDGSFPQDNNGSL
NIKIRDIQANSVLVSWKASSKILKSSVKWTAFVKTENSAAQSARIPSDVKVYNLTHLNPSTEYKICIDIPTIYQ
KNRKKCVNVTTKGLHPDQKEYEKNNTTTLMACLGGLLGIIGVICLISCLSPENMCDGGHSYVRNYLQKPTFALGE
LYPPLINLWEAGKEKSTSLKVKATVIGLPTNMS

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FIGURE 850

GCCACTTCTTCTGGGCCCCACGAGGCAGCTGTCCCATGCTCTGCTGAGCACGGTGGTGCCATGCCTCTGCAACTCC
TCCTGTTGCTGATCCTACTGGGCCCTGGCAACAGCTTGAGCTGTGGGACACCTGGGCAGATGAAGCCGAGAAAG
CCTTGGGTCCCCTGCTTGCCCGGGACCGGAGACAGGCCACCGAATATGAGTACCTAGATTATGATTTCTGCCAG
AAACGGAGCCTCCAGAAATGCTGAGGAACAGCACTGACACCACTCCTCTGACTGGGCCTGGAACCCCTGAGTCTA
CCACTGTGGAGCCTGCTGCAAGGCGTTTCTACTGGCCTGGATGCAGGAGGGGCAGTCACAGAGCTGACCACGGAGC
TGGCCAACATGGGGAACCTGTCCACGGATTTCAGCAGCTATGGAGATACAGACCACTCAACCAGCAGCCACGGAGG
CACAGACCACTCCACTGGCAGCCACAGAGGCACAGACAACCTCGACTGACGGCCACGGAGGCACAGACCACTCCAC
TGGCAGCCACAGAGGCACAGACCACTCCACCAGCAGCCACGGAAGCACAGACCACTCAACCCACAGGCCTGGAGG
CACAGACCACTGCACCAGCAGCCATGGAGGCACAGACCACTGCACCAGCAGCCATGGAAGCACAGACCACTCCAC
CAGCAGCCATGGAGGCACAGACCACTCAAACCACAGCCATGGAGGCACAGACCACTGCACCAGAAGCCACGGAGG
CACAGACCACTCAACCCACAGCCACGGAGGCACAGACCACTCCACTGGCAGCCATGGAGGCCCTGTCCACAGAAC
CCAGTGCCACAGAGGCCCTGTCCATGGAACCTACTACCAAAAGAGGTCTGTTTCATACCCTTTTCTGTGTCTCTG
TTACTCACAAGGGCATTCCCATGGCAGCCAGCAATTTGTCCGTCAACTACCCAGTGGGGGGCCCCAGACCACATCT
CTGTGAAGCAGTGCCTGCTGGCCATCCTAATCTTGGCGCTGGTGGCCACTATCTTCTTCTGTGCACTGTGGTGC
TGGCGGTCGCTCTCCCGCAAGGGCCACATGTACCCCGTGCGTAATTACTCCCCACCGAGATGGTCTGCATCT
CATCCCTGTTGCCTGATGGGGGTGAGGGGCCCTCTGCCACAGCCAATGGGGGCCCTGTCCAAGGCCAAGAGCCCGG
GCCTGACGCCAGAGCCAGGGAGGACCGTGAGGGGGATGACCTCACCTGCACAGCTTCTCCCTTAGCTCACTC
TGCCATCTGTTTTGGCAAGACCCACCTCCACGGGCTCTCCTGGGCCACCCCTGAGTGCCAGACCCCAATCCAC
AGCTCTGGGCTTCTCGGAGACCCCTGGGGATGGGGATCTTCAGGGAAGGAACCTTGCCACCCAAACAGGACAA
GAGCAGCCTGGGGCCAAGCAGACGGGCAAGTGGAGCCACCTCTTCTCCCTCCGCGGATGAAGCCAGCCACAT
TTCAGCCGAGGTCCAAGGCAGGAGGCCATTTACTTGAGACAGATTCTCTCCTTTTCTGTCCCCATCTTCTCT
GGGTCCCTCTAACATCTCCCATGGCTCTCCCCGCTTCTCCTGGTCACTGGAGTCTCCTCCCCATGTACCCAAGGA
AGATGGAGCTCCCCATCCCACACGCACTGCACTGCCATTGTCTTTTGGTTGCCATGGTCACCAACAGGAAGTG
GACATTCTAAGGGAGGAGTACTGAAGAGTGACGGACTTCTGAGGCTGTTTCTGTGCTCCTCTGACTTGGGGCA
GCTTGGGTCTTCTTGGGCACCTCTCTGGGAAAACCCAGGGTGAGGTTAGCCCTGTGAGGGCTGGGATGGGTTTCG
TGGGCCCCAAGGGCAGACCTTTCTTGGGACTGTGTGGACCAAGGAGCTTCCATCTAGTGACAAGTGACCCCCAG
CTATCGCCTCTTGCTTCCCCTGTGGCCACTTTCAGGGTGAGTCTGTCTTGTTCAGTATCCCAACTGC
AGGTCCAGTGCAGGCA

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FIGURE 851

MPLQLLLLLLILLGPGNSLQLWDTWADEAEKALGPLLARDRRQATEYEYLDYDFLPETEPPEMLRNSTDTTPLTGP
GTPESTTVEPAARRSTGLDAGGAVTELTTELANMGNLSTDSAAMEIQTTQPAATEAQTTPLAATEAQTTRLTATE
AQTTPLAATEAQTTPPAATEAQTTQPTGLEAQTTAPAAMEAQTTAPAAMEAQTTPPAAMEAQTTQTAMEAQTTA
PEATEAQTTQPTATEAQTTPLAAMEALSTEPSATEALSMEPTTKRGLFIPFSVSSVTHKGIPMAASNLSVNYPVG
APDHISVKQCLLAILILALVATIFFVCTVVLAVRLSRKGHMYPVARNYSPTMVCISSLLPDGGEGPSATANGGLS
KAKSPGLTPEPREDREGDDLTHSFLP

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FIGURE 852

GGACGTCGAGGCATTACAATCGCGAAACCAAGCCATAGCATGAAACAGCGAGCTTGCAGCCTCACCGACGAGTCT
CAACTAAAAGGGACTCCCGGAGCTAGGGGTGGGGACTCGGCCTCACACAGTGAGTGCCGGCTATTGGACTTTTGT
CCAGTGACAGCTGAGACAACAAGGACCACGGGAGGAGGTGTAGGAGAGAAGCGCCGGAACAGCGATCGCCCAGC
ACCAAGTCCGCTTCCAGGCTTTTCGGTTTCTTTGCTTCCATCTTGGGTGCGCCTTCCCGGCGTCTAGGGGAGCGAA
GGCTGAGGTGGCAGCGGCAGGAGATCCGGCCGCGACAGGACGAACTCCCCACTGGAAAGGATTCTGAAAGAAA
TGAAGTCAGCCCTCAGAAATGAAGTTGACTGCCTGCTGGCTTTTCTGTTGACTGGCCCGGAGCTGTACTGCAAGA
CCCTGTGAGCTTCCCTAGTCTAAGAGTAGGATGCTGCTGTAAGTCATCCATCAGGTTGAAGAAGCACTTGATAC
AGATGAGAAGGAGATGCTGCTCTTTTGTGCGGGATGTTGCTATAGATGTGGTTCCACCTAATGTCAGGGACCT
TCTGGATATTTTACGGGAAAGAGGTAAGCTGTCTGTGCGGGACTTGGCTGAACTGCTCTACAGAGTGAGGCGATT
TGACCTGCTCAAACGTATCTTGAAGATGGACAGAAAAGCTGTGGAGACCCACCTGCTCAGGAACCCCTCACCTTGT
TTCGGACTATAGATGCTGATGGCAGAGATTGGTGAGGATTTGGATAAATCTGATGTGCTCTATTAAATTTTCT
CATGAAGGATTACATGGCCGAGGCAAGATAAGCAAGGAGAAGAGTTTCTTGACCTTGTGGTTGAGTTGGAGAA
ACTAAATTTGGTTGCCCCAGATCAACTGGATTTATTAGAAAAATGCCTAAAGAACATCCACAGAATAGACCTGAA
GACAAAAATCCAGAAGTACAAGCAGTCTGTTCAAGGAGCAGGGACAAGTTACAGGAATGTTCTCCAAGCAGCAAT
CCAAAAGAGTCTCAAGGATCCTTCAAATAAAGCTCAGGCTCCATAATGGGAGAAGTAAAGAACAAAGACTTAAGGA
ACAGCTTGGCGCTCAACAAGAACCAGTGAAGAAATCCATTCAGGAATCAGAAGCTTTTTTGCCTCAGAGCATAACC
TGAAGAGAGATACAAGATGAAGAGCAAGCCCTAGGAATCTGCCTGATAATCGATTGCATTGGCAATGAGACAGA
GCTTCTTCGAGACACCTTCACTTCCCTGGGCTATGAAGTCCAGAAATCTTGCATCTCAGTATGCATGGTATATC
CCAGATTCTTGGCCAATTTGCCTGTATGCCGAGCACCAGACTACGACAGCTTTGTGTGTGCTTGGTGAGCCG
AGGAGGCTCCAGAGTGTGTATGGTGTGGATCAGACTCACTCAGGGCTCCCCCTGCATCACATCAGGAGGATGTT
CATGGGAGATTATGCCCTTATCTAGCAGGGAAGCCAAAGATGTTTTTTATTCAGAACTATGTGGTGTGAGAGGG
CCAGCTGGGAGAACAGCAGCCTCTTGGAGGTGGATGGGCCAGCGATGAAGAATGTGGAATTCAGGCTCAGAAGCG
AGGGCTGTGCACAGTTCACCGAGAAGCTGACTTCTTCTGGAGCCTGTGTACTGCGGACATGTCCCTGCTGGAGCA
GTCTCACAGCTCACCGTCCCTGTACCTGCAGTGCCTCTCCAGAACTGAGACAAGAAAGAAAACGCCCACTCCT
GGATCTTCACATTGAACTCAATGGCTACATGTATGATTGGAACAGCAGAGTTCTGCGCAAGGAGAAATATTATGT
CTGGCTGCAGCACACTCTGAGAAAGAACTTATCCTCTCTACACATAAGAAACCAAAAGGCTGGGCGTAGTGGC
TCACACCTGTAATCCCAGCACTTTGGGAGGCCAAGGAGGGCAGATCACTTCAGGTCAGGAGTTCGAGACCAGCCT
GGCCAACATGGTAAACGCTGTCCCTAGTAAAAATGCAAAAATTAGCTGGGTGTGGGTGTGGGTACCTGTGTTCCC
AGTTACTTGGGAGGCTGAGGTGGGAGGATCTTTTGAACCCAGGAGTTCAGGGTCATAGCATGCTGTGATTGTGCC
TACGAATAGCCACTGCATACCAACCTGGGCAATATAGCAAGATCCCATCTCTTAAAAA

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FIGURE 853

MSAEVIHQVEEALDTDEKEMLLFLCRDVAIDVPPNVRDLLDILRERGKLSVGDLAELLYRVRRFDLLKRILKMD
RKAVETHLLRNPHLVSDYRVLM AEIGEDLDKSDVSSLIFLMKDYMGRGKISKEKSFLDLVVELEKLNLVAPDQLD
LLEKCLKNIHRIDLKTKIQKYKQSVQGAGTSYRNVLQAAIQKSLKDPSNNFRLHNGRSKEQRLKEQLGAQQEFPVK
KSIQSESAFLPQSIPEERYKMKSKPLGICLIIDCIGNETELLRDTFTSLGYEVQKFLHLSMHGISQILGQFACMP
EHRDYDSFVCVLVSRGGSQSVYGVDQTHSGLPLHHIRRMFMGDSCPYLAGKPKMFFIQNYVVSEGQLENSLLEV
DGPAMKNVEFKAQKRGLCTVHREADFFWSLCTADMSLLEQSHSSPSLYLQCLSQKLRQERKRPLLDLHIELNGYM
YDWNSRVSACEKYYVWLQHTLRKKLILSYT

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FIGURE 854

GGCACGAGGCCGCCACCCGAGCCGGAGCGGGCTGGGCCGCCAAGGCAAGATGCTGGACTACAGCGTGTGGGACCA
CATTGAGGTGTCTGATGATGAAGACGAGACGCACCCCAACATCGACACGGCCAGTCTCTTCCGCTGGCGGCATCA
GGCCCGGGTGGAAACGCATGGAGCAGTTCCAGAAGGAGAAGGAGGAACTGGACAGGGGCTGCCGCGAGTGCAAGCG
CAAGGTGGCCGAGTGCCAGAGGAACTGAAGGAGCTGGAGGTGGCCGAGGGCGGCAAGGCAGAGCTGGAGCGCCT
GCAGGCCGAGGCACAGCAGCTGCGCAAGGAGGAGCGGAGCTGGGAGCAGAAGCTGGAGGAGATGCGCAAGAAGGA
GAAGAGCATGCCCTGGAACGTGGACACGCTCAGCAAAGACGGCTTCAGCAAGAGCATGGTAAATACCAAGCCCGA
GAAGACGGAGGAGGACTCAGAGGAGGTGAGGGAGCAGAAACACAAGACCTTCGTGGAAAAATACGAGAAACAGAT
CAAGCACTTTGGCATGCTTCGCCGCTGGGATGACAGCCAAAAGTACCTGTCAGACAACGTCCACCTGGTGTGCGA
GGAGACAGCCAATTACCTGGTCATTTGGTGCATTGACCTAGAGGTGGAGGAGAAATGTGCACTCATGGAGCAGGT
GGCCCCACCAGACAATCGTCATGCAATTTATCCTGGAGCTGGCCAAGAGCCTAAAGGTGGACCCCCGGGCCTGCTT
CCGGCAGTTCTTCACTAAGATTAAGACAGCCGATCGCCAGTACATGGAGGGCTTCAACGACGAGCTGGAAGCCTT
CAAGGAGCGTGTGCGGGGCCGTGCCAAGCTGCGCATCGAGAAGGCCATGAAGGAGTACGAGGAGGAGGAGCGCAA
GAAGCGGCTCGGCCCCGGCGGCCTGGACCCCGTCGAGGTCTACGAGTCCCTCCCTGAGGAACCTCAGAAGTGCTT
CGATGTGAAGGACGTGCAGATGCTGCAGGACGCCATCAGCAAGATGGACCCACCGACGCAAAGTACCACATGCA
GCGCTGCATTGACTCTGGCCTCTGGGTCCCCAACTCTAAGGCCAGCGAGGCCAAGGAGGGAGAGGAGGCAGGTCC
TGGGGACCCATTACTGGAAGCTGTTCCCAAGACGGGCGATGAGAAGGATGTGAGTGTGTGACCTGCCCCAGCTAC
CACCGCCACCTGCTTCCAGGCCCTATGTGCCCTTTTCAGAAAACAGATAGATGCCATCTCGCCCGCTCCTGAC
TTCCTCTACTTGCCTGCTCGGCCAGCCTGGGGGGCCCGCCAGCCCTCCCTGGCCTCTCCACTGTCTCCACTC
TCCAGCGCCATTCAAGTCTCTGCTTTGAGTCAAGGGGCTTCACTGCCTGCAGCCCCCATCAGCATTATGCCAA
AGGCCCCGGGGTCCGGGGAAGGGCAGAGGTACCAGGCTGGTCTACCAGGTAGTTGGGGAGGGTCCCCAGCCAAG
GGGCCGGCTCTCGTCACTGGGCTCTGTTTTCACTGTTCTGCTGTCTGTGTCTTCTATTTGGCAAACAGCAAT
GATCTTCCAATAAAAGATTTAGATGCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 855

MVDYSVWDHIEVSDDDETHPNIDTASLFRWRHQARVERMEQFQKEKEELDRCRECKRKVAECQRLKELEVAE
GGKAELERLQAEAQQLRKEERSWEQKLEEMRKKEKSMPWNVDTL SKDGF SKSMVNTKPEKTEEDSEEVREQKHKT
FVEKYEKQIKHFGMLRRWDDSQKYLSDNVHLVCEETANYLVIWCIDLEVEEKCALMEQVAHQTI VMQFILELAKS
LKVDPRACFRQFFTKIKTADRQYMEGFNDELEAFKERVGRAKLR IEKAMKEYEEEEERKKRLGPGGLDPVEVYES
LPEELQKCFDVKDVQMLQDAISKMDPTDAKYHMQRCIDSGLWVPNSKASEAKEGEEAGPGDPLLEAVPKTGDEKD
VSV

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FIGURE 856

TTTTTGCAACCAACATGGTTCATTAAAACTCTCTTTGACTATGGCATTCAAGGACAGCAATACAATCTTTTT
TTTTTTAACAAGCAACTAATATAAAAACTGCAAATGCCATATATTCATATCTAGGCTATTCTTCTCATATAGG
CATGTCATTAGATAGACTTTCTTTCTATTCTTTCTGAGGTATTTTTTTGTGGTTTACTTTTATTGTACTGCTGG
ATGCATTATTTTTGATCATCCTTTCCTAAAATGATTTAAAGACCTGCAAATAATTTTATTGCATAGGACACTATT
GATGACACATAGAATGGGAGCTGCAAGTATGTGGCATTGGAACAAGCCTTACAAATATTGCATTTTAAGAATACA
CACATTTTTTACAGTTTGTCTCTTTTAAAAAATTTGAAGTTATAGC

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FIGURE 857A

CCTACTCTATTTCAGATATTCTCCAGATTCTCTAAAGATTAGAGATCATTCTCATTCTCCTAGGAGTACTCACTTC
AGGAAGCAACCAGATAAAAGAGAGGTGCAACGGAAGCCAGAACATTCTCTCGGAAATTCAACCTGTTTCGCAGT
TTCTCGAGGAATCAGCATTTCAGTCAATCCGGGCCGGGAGCAGTCATCTGTGGTGAGGCTGATTGGCTGGGCAGGA
ACAGCGCCGGGGCGTGGGCTGAGCACAGCGCTTCGCTCTCTTTGCCACAGGAAGCCTGAGCTCATTTCGAGTAGCG
GCTCTTCCAAGCTCAAAGAAGCAGAGGCCGCTGTTCGTTTCCTTTAGGTCTTTCCACTAAAGTCGGAGTATCTTC
TTCCAAGATTTACGCTCTTGGTGGCCGTTCCAAGGAGCGCGAGGTCTGGGATGGATCTTGAAGGGGACCGCAATGG
AGGAGCAAAGAAGAAGAACTTTTTAAACTGAACAATAAAAGTGAAAAAGATAAGAAGGAAAAGAAACCAACTGT
CAGTGTATTTTCAATGTTTCGCTATTCAAATTGGCTTGACAAGTTGTATATGGTGGTGGGAACTTTGGCTGCCAT
CATCCATGGGGCTGGACTTCTCTCATGATGCTGGTGTGGGAGAAATGACAGATATCTTTGCAAATGCAGGAAA
TTTAGAAGATCTGATGTCAAACATCACTAATAGAAGTGATATCAATGATACAGGGTTCTTCATGAATCTGGAGGA
AGACATGACCAGGTATGCCTATTATTACAGTGGAAATGGTGTCTGGGGTGTGGTTGCTGCTTACATTTCAGGTTTC
ATTTTGGTGCCTGGCAGCTGGAAGACAAATACACAAAATTAGAAAACAGTTTTTTCATGCTATAATGCGACAGGA
GATAGGCTGGTTTGTATGTGCACGATGTTGGGGAGCTTAACACCCGACTTACAGATGATGTCTCCAAGATTAAATGA
AGGAATTGGTGACAAAATTGGAATGTTCTTTTCAGTCAATGGCAACATTTTTCAGTGGGTTTATAGTAGGATTTAC
ACGTGGTTGGAAGCTAACCCCTTGTGATTTTGGCCATCAGTCTGTCTTGGACTGTCAGCTGCTGTCTGGGCAAA
GATACTATCTTCATTTACTGATAAAGAAGCTTTAGCGTATGCAAAAGCTGGAGCAGTAGCTGAAGAGGTCTTGGC
AGCAATTAGAACTGTGATTGCATTGGAGGACAAAAGAAAGAACTTGAAAGGTACAACAAAATTTAGAAGAAGC
TAAAGAATTGGGATAAAGAAAGCTATTACAGCCAATATTTCTATAGGTGCTGCTTCTGCTGATCTATGCATC
TTATGCTCTGGCCTTCTGGTATGGGACCACCTTGGTCTCTCAGGGGAATATTCTATTGGACAAGTACTCACTGT
ATTTTCTGTATTAATTGGGGCTTTTAGTGTGGACAGGCATCTCCAAGCATTGAAGCATTGCAAAATGCAAGAGG
AGCAGCTTATGAAATCTTCAAGATAATTGATAATAAGCCAAGTATTGACAGCTATTCGAAGAGTGGGCACAAACC
AGATAATATTAAAGGAAATTTGGAATTCAGAAATGTTCACTTCAGTTACCCATCTCGAAAAGAAGTTAAGATCTT
GAAGGGTCTGAACCTGAAGGTGCAGAGTGGGCAGACGGTGGCCCTGGTTGGAAACAGTGGCTGTGGGAAGAGCAC
AACAGTCCAGCTGATGCAGAGGCTCTATGACCCACAGAGGGGATGGTCAGTGTGATGGACAGGATATTAGGAC
CATAAATGTAAGGTTTCTACGGGAAATCATTGGTGTGGTGAGTCAGGAACCTGTATTGTTTGGCCACCACGATAGC
TGAAAACATTTCGCTATGGCCGTGAAAATGTACCATGGATGAGATTGAGAAAGCTGTCAAGGAAGCCAATGCCTA
TGACTTTATCATGAAACTGCCTCATAAATTTGACACCCTGGTTGGAGAGAGAGGGGCCCAGTTGAGTGGTGGGCA
GAAGCAGAGGATCGCCATTGCACGTGCCCTGGTTTCGCAACCCCAAGATCCTCCTGCTGGATGAGGCCACGTCAGC
CTTGGACACAGAAAAGCGAAGCAGTGGTTTCAGGTGGCTCTGGATAAGGCCAGAAAAGGTTCGGACCACCATTGTGAT
AGCTCATCGTTTGTCTACAGTTCGTAATGCTGACGTCATCGCTGGTTTCGATGATGGAGTCATTGTGGAGAAAGG
AAATCATGATGAACTCATGAAAGAGAAAGGCATTACTTCAAACCTTGTCAATGCAGACAGCAGGAAATGAAGT
TGAATTAGAAAATGCAGCTGATGAATCCAAAAGTGAAATTGATGCCTTGGAAATGTCTTCAAATGATTCAAGATC
CAGTCTAATAAGAAAAAGATCAACTCGTAGGAGTGTCCGTGGATCACAAGCCCAAGACAGAAAGCTTAGTACCAA
AGAGGCTCTGGATGAAAGTATACCTCCAGTTTCTTTTGGAGGATTATGAAGCTAAATTTAACTGAATGGCCTTA
TTTTGTTGTTGGTGATTTTGTGCCATTATAAATGGAGGCCTGCAACCAGCATTGCAATAATATTTTCAAAGAT
TATAGGGGTTTTTACAAGAATTGATGATCCTGAAACAAAACGACAGAATAGTAACTGTTTTCACTATTGTTTTCT
AGCCCTTGGAAATTATTTCTTTTATTACATTTTCTTTCAGGGTTTCACATTTGGCAAAGCTGGAGAGATCCTCAC
CAAGCGGCTCCGATACATGGTTTTCCGATCCATGCTCAGACAGGATGTGAGTTGGTTTGTATGACCCTAAAAACAC
CACTGGAGCATTGACTACCAGGCTCGCCAATGATGCTGCTCAAGTTAAAGGGGCTATAGGTTCCAGGCTTGCTGT
AATTACCCAGAAATATAGCAAATCTTGGGACAGGAATAATTATATCCTTCATCTATGGTTGGCAACTAACACTGTT
ACTCTTAGCAATTGTACCCATCATTGCAATAGCAGGAGTTGTTGAAATGAAAATGTTGTCTGGACAAGCACTGAA
AGATAAGAAAGAACTAGAAGGTGCTGGGAAGATCGCTACTGAAGCAATAGAAAACCTCCGAACCGTTGTTTCTTT
GACTCAGGAGCAGAAAGTTTGAACATATGTATGCTCAGAGTTTGAGGTACCATACAGAACTCTTTGAGGAAAGC
ACACATCTTTGGAATTACATTTTCTTTCACCCAGGCAATGATGTATTTTCTATGCTGGATGTTTCCGGTTTGG
AGCCTACTTGGTGGCACATAAACTCATGAGCTTTGAGGATGTTCTGTTAGTATTTTTCAGCTGTTGTCTTTGGTGC
CATGGCCGTGGGCAAGTCAGTTCATTTGCTCCTGACTATGCCAAAGCCAAAATATCAGCAGCCACATCATCAT
GATCATTGAAAAACCCCTTTGATTGACAGCTACAGCACGGAAGGCCTAATGCCGAACACATTGGAAGGAAATGT
CACATTTGGTGAAGTTGTATTCACTATCCACCCGACCGGACATCCAGTGCTTCAGGGACTGAGCCTGGAGGT

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FIGURE 857B

GAAGAAGGGCCAGACGCTGGCTCTGGTGGGCAGCAGTGGCTGTGGGAAGAGCACAGTGGTCCAGCTCCTGGAGCG
GTTCTACGACCCCTTGGCAGGGAAAGTGCTGCTTGATGGCAAAGAAATAAAGCGACTGAATGTTTCAGTGGCTCCG
AGCACACCTGGGCATCGTGTCCCAGGAGCCCATCCTGTTTACTGCAGCATTGCTGAGAACATTGCCTATGGAGA
CAACAGCCGGGTGGTGTCAAGGAAGAGATTGTGAGGGCAGCAAAGGAGGCCAACATACATGCCTTCATCGAGTC
ACTGCCTAATAAATATAGCACTAAAGTAGGAGACAAAGGAAGTCAAGTCTCTGGTGGCCAGAAACAACGCATTGC
CATAGCTCGTGCCCTTGTTAGACAGCCTCATATTTTGCTTTTGGATGAAGCCACGTCAGCTCTGGATACAGAAAG
TGAAAAGGTTGTCCAAGAAGCCCTGGACAAAGCCAGAGAAGGCCGCACCTGCATTGTGATTGCTCACCGCCTGTC
CACCATCCAGAATGCAGACTTAATAGTGGTGTTCAGAATGGCAGAGTCAAGGAGCATGGCACGCATCAGCAGCT
GCTGGCACAGAAAGGCATCTATTTTTCAATGGTCAGTGTCCAGGCTGGAACAAAGCGCCAGTGAAGTCTGACTGT
ATGAGATGTTAAATACTTTTTAAIATTTGTTTAGATATGACATTTATTCAAAGTTAAAAGCAAACACTTACAGAA
TTATGAAGAGGTATCTGTTTAACATTTCCCTCAGTCAAGTTCAGAGTCTTCAGAGACTTCGTAATTAAAGGAACAG
AGTGAGAGACATCATCAAGTGGAGAGAAATCATAGTTTAAAGTGCATTATAAATTTTATAACAGAATTAAAGTAG
ATTTTAAAAGATAAAATGTGTAATTTTGTATATTTCCCATTTGGACTGTAAGTACTGCCTTGCTAAAAGAT
TATAGAAGTAGCAAAAAGTATTGAAATGTTGCATAAAGTGTCTATAATAAACTAACTTTTCATGTG

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FIGURE 858

MDLEGDRNGGAKKKNFFKLNNKSEKDKKEKKPTVSVFSMFRYSNWLDKLYMVVGTAAIIHGAGLPLMMLVFGEM
TDIFANAGNLEDLMSNITNRSDINDTGFFMNLEEDMTRYAYYYSIGIGAGVLVAAYIQVSFWCLAAGRQIHKIRKQ
FFHAIMRQEIGWFDVHDVGELNTRLTDDVSKINEGIGDKIGMFFQSMATFFTGFIVGFTRGWKLTLVILAI SPVL
GLSAAVWAKILSSFTDKELLAYAKAGAVAEVLAAIRTVIAFGGQKKELEERYNKNLEEAKRIGIKKAITANISIG
AAFLLIYASYALAFWYGTTLVLSGEYSIGQVLTVFSVLIGAFSVGQASPSIEAFANARGAAYEIFKIIDNKPSID
SYSKSGHKPDNIKGNLEFRNVHFSYPSRKEVKILKGLNLKVQSGQTVALVGNSGCGKSTTVQLMQRLYDPTEGMV
SVDGQDIRTINVRFLREIIGVVSQEPVLFATTIAENIRYGRENVMTDEIEKAVKEANAYDFIMKLPKFDTLVGE
RGAQLSGGQKQRIAIARALVRNPKILLLDEATSALDTESEAVVQVALDKARKGRTTIVIAHRLSTVRNADVIAGF
DDGVIVEKGNHDELMKEKGIYFKLVTMQTAGNEVELENAADESKSEIDALEMSSNDSRSSLRKRSTRRSVRGSQ
AQDRKLSTKEALDESIPPVSFWRIMKLNLTWPYFVVGVFCAIINGGLQPAFAIIFSKIIGVTRIDDPETKRQN
SNLFSLLFLALGIIISFITFFLQGFTFGKAGEILTKRLRYMVFRSMLRQDVSWFDDPKNTTGALTTRLANDAAQVK
GAIGSRLAVITQNIANLGTGIIISFIYGWQLTLLLLLAIVPIIAIAGVVEMKMLSGQALKDKKELEGAGKIA TEAI
ENFRTVVS LTQE QKFEHMYA QSLQVPYRNSLRKAHIFGITFSFTQAMMYFSYAGCFRFGAYLVAHKLMSFEDVLL
VFSAVVFGAMAVGQVSSFPDYAKAKISAHHIIMIEKTP LIDSYSTEGLMPNTLEGNTVTFGEVVFNYPTRPDIP
VLQGLSLEVKKGQTLALVGSSGCGKSTVVQLLERFYDPLAGKVLLDGKEIKRLNVQWLRHLGIVSQEPILFDCS
IAENIAYGDNRSRVVSQEEIVRAAKEANI HAFIESLPNKYSTKVGDGKTQLSGGQKQRIAIARALVRQPHILLLDE
ATSALDTESEKVVQEALDKAREGRTCIVIAHRLSTIQNADLIVVFQNGRVKEHGTHQQLLAQKGIYFSMVSQAG
TKRQ

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FIGURE 859A

TGCCGCTTCCGCGGTACATGACTCCAGTCTAGCTCGCATTGCGCTCCCGCCGGCGAGTTCTCCCCGCGCGCGT
TGCGAGGAGACGGCGCATGTCCGCGCGCTTGCCCTCTGCAGTACCCCGCCCTCTTCTCCACCACAATGAGATC
TAAGTGCCTGCTGCGGTGCGTACGTGAGGTGAAAAGCGCACTGGGACGGCAGCCAGGAAACGTGTGGGCTCT
CTGCTGCGGTCTCCGAGGGCCGACCGCTGCCGCGCGGGTCTGCGGGCTGACTGTGCTCTGCTTTGACAGGA
GAGGCTGCTTCTTGTAGAGGAAACAGCTTTGAAGTGTGGAGCGGAAAGGAGCAGTTTCTGAGCTGCAAAAATA
GTTTCTAAACAGAGAGTTAATTGTTAAATCCAGTATGCGCCACAGGAGGAGGTCCCTTTGAAGATGGCATGAATGA
TCAGGATTTACCAAATGAGTAATGAGAATGTTGATGACAGGCTCAACAATATGGATTGGGGTGCCCAACAGAA
GAAAGCAAATAGATCATCAGAAAAGAAATAAGAAAAAGTTTGGTGTAGAAAAGTGATAAAAGAGTAACCAATGATAT
TTCTCCGAGTCTGTCACCAGGAGTTGGAAGGCGAAGAACAAGACTCCACATACGTTCCACACAGTAGATACAT
GAGTCAGATGTCTGTCCAGAGCAGGCAGAATTAGAGAACTGAAACAGCGGATAAACTTCAGTGATTAGATCA
GAGAAGCATTGGAAGTGATTCCCAAGGTAGAGCAACAGCTGCTAACAACAAACGTCAGCTTAGTGAACCCGAAA
GCCCTTCAACTTTTTTGCTATGCAGATTAATACTAACAGAGCAAAGATGCATCTACAAGTCCCCAACAGAGA
AACGATTGGATCAGCACAGTGTAAGAGTTGTTTGCTTCTGCTTTAAGTAATGACCTTTGCAAACTGTCAGGT
GTCTGAAGAAGATGGGAGGGGAGAACCCTGCAATGGAGAGCAGCCAGATTGTAAGCAGGCTTGTTCAAATTCGCGA
TTATATTACTAAAGCTAGTTCCATGCGGGAAGATCTTGTAGAGAAAAATGAGAGATCTGCTAATGTTGAGCGCT
TACTCATCTAATAGATCACCTTAAAGAACAAGAGAAGTCATATATGAAATTTCTTAAAAAATCCTTGCCAGAGA
TCCTCAGCAGGAGCCTATGGAAGAGATAGAAAATTTGAAGAAACAACATGATTTATTAAGAAATGTTACAACA
GCAGGAGCAACTAAGAGGAGCTCTACAGGGACGGCAGGCTGCATTCTAGCTCTGCAACATAAAGCAGACGAAGC
TATTGCAGTGATGGATGATTCTGTTGTTGCAGAACTGCAGGTAGCTTATCTGGCGTCAGTATCACATCTGAAC
AAATGAAGAATTGAATGACTTAATTCAGCGTTTTTCATAATCAGCTTCGTGATTCTCAGCTCCAGCTGTTCCAGA
CAATAGAAGACAGGCAGAAAGTCTTTTCACTAAGGGAGGTTTCCAGAGCAGGAAACCATCAGCTTCAGAACG
TTTACCTGATGAGAAAGTCGAACCTTTTTAGCAAAATGAGAGTGCTACAGGAAAAGAAACAAAAATGGACAAAT
GCTTGGAGAACTTCATACACTTCGAGATCAGCATCTTAACAATTCATCATCTCTCCACAAAGGAGTGTCGATCA
GAGAAGTACTTCAGCTCCCTCTGCTTGTCTAGGCTTGGCACCAGTTGTCAATGGAGAATCCAATAGCCTCACATC
ATCTGTTCTTATCTACTGCTTCTCTAGTATCTCAGAATGAGAGTGAACGAAGGCCACCTCAATCCATCTGA
AAAACCTCAGAAGTTAAATGAAGTTCGAAAGAGATTGAATGAGCTAAGAGAATTAGTTTATTATTGAACAAAC
GTCAGACATGATGACAGATGCTGTGAATGAAAACAGGAAAGATGAAGAACTGAAGAGTCAGAATATGATTCTGA
GCATGAAAATTCGAGCCTGTTACTAACATTGAAATCCACAAGTAGCTTCCACTTGAATGAAGTAAATAGTCA
TAGTAATGCACAGTGTGTTTCTAATAATAGAGATGGGCGAACAGTTAATTCTAATTGTGAAATTAACAACAGATC
TGCTGCCAACATAAGGGCTCTAAACGTGCCTCCTTCTTTAGATTGTGATATAATAGAGAAGGGGAACAGGAGAT
TCATGTTGCACAAGGTGAAGATGATGAGGAGGAGGAGGAAGAAGCAGAAGAGGAGGGAGTCAGTGGAGCTTCATT
ATCTAGTCACAGGAGCAGTCTGTTGATGAGCATCCAGAAGATGCTGAATTTGAACAGAAGATCAACCGACTTAT
GGCTGCAAAACAGAACTTAGACAGTTACAAGATCTTGTGCTATGGTACAGGATGATGATGCAGCTCAAGGAGT
TATCTCTGCCAGTGCATCAAATTTGGATGATTCTACCCAGCAGAAGAAGACACCAAGCAAAATTCAAATAACAC
TAGAGGAAATGCCAATAAAACACAGAAAGATACTGGAGTAAATGAAAAGGCAAGAGAGAAATTTATGAGGCTAA
ACTACAGCAGCAACAGAGAGAGCTAAAACAATTGCAGGAAGAAAGAAAGAACTGATTGACATTACAGAGAAAT
TCAAGCATTGCAACGGCATGCCCTGACTTACAGCTGTCAGCTGCTAGTGTGGGTAAGTGTCTACCAAAAAATA
TATGCCAGCTGTTACTTCAACCCCAACTGTTAATCAACACGAGACCAGTACAAGCAAAATCTGTTTTTGAGCCTGA
AGATTCTTCAATAGTAGATAATGAGTTGTGGTCAGAAATGAGAAGACATGAAATGTTGAGGGAGGAGCTGCGACA
GAGAAGAAAGCAGCTTGAAGCTCTGATGGCTGAACATCAGAGGAGGCAAGGTCTAGCTGAACTGCATCTCCAGT
GGCTGTGTCATTGAGAAGTGATGGATCTGAGAACCCTATGTACTCCTCAGCAAAGTAGAACAGAAAAACGATGGC
AACTTGGGGAGGGTCTACCCAGTGTGCACTAGATGAAGAAGGAGATGAAGACGGTTACCTTTCTGAAGGAATTGT
TCGGACAGATGAAGAGGAGGAAGAAGAGCAAGATGCCAGTTCCAATGATAACTTTTCTGTGTGCTCTTCAACAG
TGTAATCATAACTCCTACAATCGAAAGGAACTAAAAATACGTGGAAGAACAATTGCCCTTTTTCGGCAGATGA
AAATTATCGTCTTTAGCCAAGACAAGGCAACAGAAATATCAGCATGCAACGGCAAGAAACCTTCGTTGGGTGTC
AGAGCTCTCTTACGTAGAAGAGAAAGAAACAATGGCAAGAACAAATCCAGCTAAAGAAACAGCTTGATTTTAGTGT
CAGTATTTGTGAGACTTTGATGCAAGACCAGCAGACTCTATCTTGTCTGCTACAACTCTTCTCACGGGTCTCTTA
CAGTGTATGCCAGCAATGTTGCATCTCCTCAAGTACACTTCATAATGCACCAGTTGAACCAGTGCTATACTCA

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FIGURE 859B

GCTAACATGGCAACAGAATAATGTTTCAGAGGTTGAAACAAATGCTAAATGAACTTATGCGCCAACGAAATCAGCA
TCCAGAAAAACCTGGAGGCAAGGAAAGAGGCAGTAGTGCATCGCACCCCTCCTTCTCCAGTTTATTTTGTCTTT
CAGCTTTCCAACACAGCCTGTAAATCTCTTCAATATACCTGGATTTACTAATTTTCATCATTGACACAGGTAT
GAATTTAGCCCTTTATTTCTTCTAATTTTGGAGATTTTCTCAGAATATCTCTACACCCAGTGAACAGCAGCA
ACCCTTAGCCAGAATTCTTTCAGGAAAAACAGAATATATGGCTTTTCCAAAACCTTTTGAAAGCAGTTCTCTAT
TGGAGCAGAGAAACCAAGGAATAAAAACTGCCTGAAGAGGAGGTGGAAAGCAGTAGGACACCATGGTTATATGA
ACAAGAAGGTGAAGTAGAGAAACCATTATCAAGACTGGATTTTTCAGTGTCTGTAGAAAAATCTACAAGTAGTAA
CCGCAAAAATCAATTAGATACAAACGGAAGAAGACGCCAGTTTGTATGAAGAATCACTGGAAAGCTTTAGCAGTAT
GCCTGATCCAGTAGATCCAACAACAGTGACTAAAACATTCAAGACAAGAAAAGCGTCTGCACAGGCCAGCCTGGC
ATCTAAAGATAAACTCCCAAGTCAAAAAGTAAGAAGAGGAATTCTACTCAGCTGAAAAGCAGAGTTAAAAACAT
CAGGTATGAAAGTGCCAGTATGTCTAGCACATGTGAACCTTGCAAAAGTAGGAACAGACATTCAGCCCAGACTGA
AGAGCCTCTTCAAGCAAAAAGTATTTCAGCAGAAAGAATCATGAGCAACTGGAAAAATAATAAAATGTAATAGGTC
TACAGAAATATCTTCAGAACTGGGAGTGATTTTTCCATGTTTGAAGCTTTCAGGATACTATTTATTCTGAAGT
AGCTACATTAATTTCTCAAAATGAATCTCGTCCACATTTTCTTATTGAACTCTTCCATGAGCTGCAGCTACTAAA
CACAGACTACTTGAGACAGAGGGCTTTATATGCATTGCAGGACATAGTATCCAGACATATTTCTGAGAGCCATGA
AAAAGGAGAAAATGTAAAGTCAGTAACTCTGGTACTTGGATAGCATCAAACCTCAGAACTTACTCCTAGTGAGAG
CCTTGCTACTACTGATGATGAAACTTTTGGAGAAGACTTTGAAAGAGAAACCCATAAAATAAGTGAGCAAAATGA
TGCTGATAATGCTAGTGTCTGTCTGTATCATCAATTTTGAAGCTTTTGCACAGATGATCTAGGTAACACCGT
GATTCACCTTAGATCAAGCATTAGCCAGAATGAGAGAATATGAGCGTATGAAGACTGAGGCTGAAAGTAACCTCAA
TATGAGATGCACCTGCAGGATTATTGAGGATGGAGATGGTGTCTGGTGCAGGTACTACAGTTAATAATTTAGAAGA
AACTCCCGTTATTGAAAATCGTAGTTTCAACAACCTGTAAAGTGAAGTTTCTACCATCCCATGCTCTAGAATTGA
TACTCAGCAGCTGGACCGGCAAAATTAAGCAATTATGAAGAAGTCATTCCTTTTGAAGGAGCACATGGATGA
AGTATGCTCCTCGCAGCTTCTAATTCAGTAAGGCGCATGGTTTTGACCCTTACCCAGCAAAATGATGAGAGCAA
AGAGTTTGTAAAGTTCTTTCATAACAACCTTGAAGTATATTACAGGATTCAGTGGCAAAATTTGCTGGCAGAAA
ACTGAAAGACTGTGGAGAAGATCTTCTGTAGAGATATCTGAAGTGTGTTCAATGAATTGGCTTTCTTTAAGCT
TATGCAAGATTTGGATAATAATAGTATAACTGTAAACAGAGATGCAAAAGGAAAATAGAAGCAACTGGAGTGAT
ACAATCTTGTGCCAAAGAGGCTAAAAGGATTCTGAAGATCATGGCTCACCTGCTGGAGAGATGATGATGAAGA
CAAAGACAAGGATGAAACTGAAACAGTTAAGCAGACTCAAACATCTGAGGTGTATGATGGTCCAAAAATGTAAG
ATCTGATATTTCTGATCAAGAGGAAGATGAAGAAAGTGAAGGATGTCCAGTGTCTATTAATTTGTCTAAAGCTGA
AACTCAGGCTTTAATAATTATGGAAGTGGAGAAGATGAAATGAGGATGAAGAAATGGAAGATTTGAAGAAGG
CCCTGTGGATGTCCAGACTTCCCTCCAGGCTAACACTGAAGCTACTGAAGAAAATGAACATGATGAACAGGTCCT
ACAACGTGACTTTAAAAAGACAGCAGAAAGCAAAATGTCCATTGGAACGAGAAGCCACTAGTAAAAATGACCAA
AAATAACTGTCTGTGAAACCCAGTTACCTCAATATCTTGGAAAGATGAGCAACCTTTAAATAGTGCTGCCCATAA
GGAGTCACCTCTACTGTGATTCAACTCAACAGCCTAACCTTTGCCGTTACGTTTACCTGAAATGGAACCCCTT
AGTGCCTAGAGTCAAAGAAGTTAAATCTGCTCAGGAACTCCTGAAAGCTCTCTGGCTGGAAGTCTGATACTGA
ATCTCCAGTGTTAGTGAATGACTATGAAGCAGAACTCTGGTAATATAAGTCAAAAGTCTGATGAAGAAGATTTTGT
AAAAGTTGAAGATTTACCACTGAACTGACAATATATTAGAGGCAGATCTAAGAAAAGAAAATGGTAGAAGAAGA
ACAGAAAACCATTTATCTGGTGAATGTGTGAAATGCAGACCGAAGAATTAGCTGGAAATTTCTGAGACACTAAA
AGAACCTGAAACGGTGGGAGCCAGAGTATATGAGATGTCTTCAGAGGCTCATCTAACTCTGTCTTACATACTC
AATGCATATATGAAAACAATACTAAATAAACATCTGATCTGTATAAAAAATCT

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FIGURE 860

MATGGGPFEDGMNDQDLFNWSNENVDDRLNMDWGAQQKKANRSSEKNKKKFGVESDKRVTNDISPESPPGVGRR
RTKTPHTFPHSRYMSQMSVPEQAELEKLKQRINFSDLDQRSIGSDSQGRATAANNKRQLSENKRKPFNFLPMQINT
NKSKDASTSPPNRETIGSAQCKELFASALSNDLLQNCQVSEEDGRGEPAMESSQIVSRVQIRDYITKASSMRED
LVEKNERSANVERLTHLIDHLKEQEKSYMFKLKKILARDPQQEPMEIEIENLKKQHDLLKRMLOQQEQQLRGALQGR
QAALLALQHKADEAIAVMDDSVVAETAGSLSGVSITSELNEELNDLIQRFHNQLRDSQPPAVPDNRRQAESLSLT
REVQSQRKPSASERLPDEKVELFSKMRVLQEKKQKMDKLLGELHTLRDQHLNNSSSSPQRSVDQRSTSAPSACL
LAPVNGESNSLTSSVPYPTASLVSONESENEGHLNPSEKLQKLNVRKRLNELRELHVHYEQTSDMMTDAVNEN
RKDEETEESEYDSEHENSEPVTNIRNPQVASTWNEVNSHSAQCVSNNRDGRTVNSNCEINNRSAAANIRALNVPP
SLDCRYNREGEQEIHVAQGEDDEEEEEEAEEEGVSGASLSSHRSSLVDEHPEDAEEFQKINRLMAAKQKLRQLQD
LVAMVQDDDAAGGVISASASNLDGFYPAEEDTKQNSNTRGNANKTQKDTGVNEKAREKFYEAKLQQQRELKQL
QEERKKLIDIHEKIQALQTACPDQLSAASVGNCPKTKYMPAVTSTPTVNQHETSTSKSVFEPEDSSIVDNELWS
EMRRHEMLREELRQRRKQLEALMAEHQRRQGLAETASPVAVSLRSDGSENLCPTQQRTEKTMATWGGSTQCALD
EEGDEDEGYLSEGIVRTDEEEEEEQDASSNDNFVCPNSNVNHSYNRKETKNTWKNNCPFSADENYRPLAKTRQQ
NISMQRQENLRWVSELSYVEEKEQWQEQIQLKKQLDFSVSICQTLMDQQTLSCLLQTLTLLTGYPVMPNSVASPQ
VHFIMHQLNQCYTQLTWQNNVQRLKQMLNELMRQRNQHPKPGGKERGSSASHPPSPSLFCPFSFPTQPVNLFN
IPGFTNFSSFAPGMNFSPLFSPNFGDFSQNIPTSEQQQPLARILSGKTEYMAFPKPFESSSSIGAEPKRNKKLP
EEEVESSRTPWLYEQEVEVEKPFIKTGFSVSVEKSTSSNRKNQLDTNGRRRQFDEESLESFSSMPDPVDPPTTVTK
TFKTRKASAQASLASKDKTPKSKSKRNSTQLKSRVKNIRYESASMSSTCEPCKSRNRHSAQTEEPLOAKVFSRK
NHEQLEKIIKCNRSTEISSETGSDFSMFEALQDTIYSEVATLISQNESRPHFLIELFHELQLLNTDYLQRALYA
LQDIVSRHISESHEKGENVKSNSGTWIASNSELTPSESLATTDDETFEKNFERETHKISEQNDADNASVLSVSS
NFEPPATDDLGNVTIHLQALARMREYERMKTEAESNSNMRCRIIEDGDGAGAGTTVNNLEETPVNIENRSSQ
PVSEVSTIPCPRIDTQQLDRQIKAIMKEVIPFLKEHMDEVCSQLLTSVRRMVLTLTQQNDESKEFVKFFHKQLG
SILQDSLAKFAGRKLKDCGEDLVEISEVLFNELAFFKLMQDLNNSITVKQRCKRKIEATGVIQSCAKEAKRII
EDHGSPAGEIDDEDKDKDETETVKQTQTSEVYDGPKNVRSDISDQEEDEESEGCPVSINLSKAETQALTNYGSGE
DENEDEEMEEFEEGPDVQTSLOANTEATEENEHDEQVLQRDFKKTAESKNVHWNEKPLVKMTKNNCPVKPSYLN
ILEDEQPLNSAAHKESPTVDSTQQPNPLPLRLPEMEPLVPRVKEVKSQETPESSLAGSPDTESPLVNDYEA
SGNISQKSDEEDFVKVEDLPLKLTIIYSEADLRKKMVEEEQKNHLSGEMCE

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FIGURE 861

GGCAGCTGCACGGCTCCTGGCCCCGGAGCATGCGCGAGAGCCGCCCGGAGCGCCCCGGAGCCCCCGCCGTCCC
GCCCCGCGCGTCCCGCGCCCCGCCGCCAGCGCACCCCCGGACGCTATGGCCCAACCCTCCGGCTGGCCCCCTTCTG
TAGGATGGTAGCACACAACCAGGTGGCAGCCGACAATGCAGTCTCCACAGCAGCAGAGCCCCGACGGCGGCCAGA
ACCTTCCTCCTCTTCTCCTCCTCGCCCGCGCCCCCGCGCGCCCGCGGCCGTGCCCGCGGTCCCGGCCCGGC
CCCCGGCGACACGCACTTCCGCACATTCCGTTGCGACGCCGATTACCGGCGCATCACGCGGCCAGCGCGCTCCT
GGACGCCTGCGGATTCTACTGGGGGCCCCCTGAGCGTGCACGGGGCGCACGAGCGGTGCGCGCCGAGCCCGTGGG
CACCTTCCTGGTGCAGCAGCCGCCAGCGGAAGTGTCTTTTCGCCCTTAGCGTGAAGATGGCCTCGGGACCCAC
GAGCATCCGCGTGCACCTTCAGGCCGGCCGCTTTCACCTGGATGGCAGCCGCGAGAGCTTCGACTGCCTCTTCGA
GCTGCTGGAGCACTACGTGGCGGCGCCGCGCCGCATGCTGGGGGCCCCGCTGCGCCAGCGCCGCGTGGCGCCGCT
GCAGGAGCTGTGCCGCCAGCGCATCGTGGCCACCGTGGGCCGCGAGAACCTGGCTCGCATCCCCCTCAACCCCGT
CCTCCGCGACTACCTGAGCTCCTTCCCCTTCCAGATTGACCGGCAGCGCCCGCGTGCACGCAGCATTAACTGG
GATGCCGTGTTATTTTGTATTACTTGCTGGAACCATGTGGGTACCCTCCCCGGCCTGGGTGGAGGGAGCGGA
TGGGTGTAGGGGCGAGGCGCCTCCCGCCCTCGGCTGGAGACGAGGCCGAGACCCCTTCTCACCTCTGAGGGG
TCCTCCCCCTCCTGGTGCTCCCTCTGGGTCCCCCTGGTTGTTGTAGCAGCTTAACTGTATCTGGAGCCAGGACCT
GAACTCGCACCTCCTACCTCTTCATGTTTACATATACCCAGTATCTTGCACAAACCAGGGGTTGGGGGAGGGTC
TCTGGCTTTATTTTCTGCTGTGCAGAATCCTATTTTATATTTTAAAGTCAGTTAGGTAATAAACTTTATTA
TGAAAGTTTTTTTTTT

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FIGURE 862

MVAHNQVAADNAVSTAAEPRRRPEPSSSSSSSPAAPARPRPCPAVPAPAPGDTHFRTFRSHADYRRITRASALLD
ACGFYWGPLSVHGAHERLRAEPVGTFLVRDSRQRNCFVALSVKMASGPTSIRVHFQAGRFHLDGSRESFDCLFEL
LEHYVAAPRRMLGAPLRQRRVRPLQELCRQRIVATVGRENLARIPLNPVLRDYLSSFPFQI

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FIGURE 863

CAGACAGACCAATCACGCGCATTCTTCGGCCACGACAAGCGCGCCTCTGATCACGTGACCAGGTCCGCTACCCAC
GTGGGGGCTCAGCGTGCACCCCTTCTTTGTGCTCGGGTTAGGAGGAGCTAGGCTGCCATCGGGCCGGTGCGAGATAC
GGGGTTGCTCTTTTGTCTCATAAGAGGGGCTTCGCTGGCAGTCTGAACGGCAAGCTTGAGTCAGGACCCCTTAATTA
AGATCCTCAATTGGCTGGAGGGCAGATCTCGCAGTAGGGCAACGCGGTAAAAATATTGCTTCGGTGGGTGACGC
GGTACAGCTGCCCCAAGGGCGTTTCGTAAACGGGAATGCCGAAGCGTGGGAAAAAGGGAGCGGTGGCGGAAGACGGGG
ATGAGCTCAGGACAGAGCCAGAGGCCAAGAAGAGTAAGACGGCCGCAAGAAAAATGACAAAGAGGCAGCAGGAG
AGGGCCCGAGCCCTGTATGAGGACCCCCAGATCAGAAAACCTCACCCAGTGGCAAACCTGCCACACTCAAGATCT
GCTCTTGAATGTGGATGGGCTTCGAGCCTGGATTAAGAAGAAAGGATTAGATTGGGTAAAGGAAGAAGCCCCAG
ATATACTGTGCCTTCAAGAGACCAATGTTTCAGAGAACAACCTACCAGCTGAACCTCAGGAGCTGCCTGGACTCT
CTCATCAATACTGGTCAGCTCCTTCGGACAAGGAAGGGTACAGTGGCGTGGGCCTGCTTTCGCGCCAGTGCCAC
TCAAAGTTTCTTACGGCATAGGCGATGAGGAGCATGATCAGGAAGGCCGGGTGATTGTGGCTGAATTTGACTCGT
TTGTGCTGGTAACAGCATATGTACCTAATGCAGGCCGAGGTCTGGTACGACTGGAGTACCGGCAGCGCTGGGATG
AAGCCTTTCGCAAGTTCCTGAAGGGCCTGGCTTCCCGAAAGCCCTTGTGCTGTGTGGAGACCTCAATGTGGCAC
ATGAAGAAATTGACCTTCGCAACCCCAAGGGGAACAAAAAGAAATGCTGGCTTCACGCCACAAGAGCGCCAAGGCT
TCGGGGAATTACTGCAGGCTGTGCCACTGGCTGACAGCTTTAGGCACCTCTACCCCAACACACCCTATGCCTACA
CCTTTTGGACTTATATGATGAATGCTCGATCCAAGAATGTTGGTTGGCGCCTTGATTACTTTTTGTTGTCCCACT
CTCTGTTACCTGCATTGTGTGACAGCAAGATCCGTTCCAAGGCCCTCGGCAGTGATCACTGTCTATCACCTAT
ACCTAGCACTGTGACACCACCCCTAAATCACTTTGAGCCTGGGAAATAAGCCCCCTCAACTACCATTCCTTCTTT
AAACACTCTTCAGAGAAATCTGCATTCTATTTCTCATGTATAAACTAGGAATCCTCCAACCAGGCTCCTGTGAT
AGAGTTCTTTTAAGCCCAAGATTTTTTATTTGAGGGTTTTTGTTTTTTAAAAAAAATTGAACAAAGACTACTA
ATGACTTTGTTGAATTATCCACATGAAAAATAAGAGCCATAGTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 864

MPKRGKKGAVAEDGDELRTPEAKKSKTAAKKNDKEAAGEGPALYEDPPDQKTSPSGKPATLKICSWNVDGLRAW
IKKKGLDWVKEEAPDILCLQETKCSENKLPAELQELPGLSHQYWSAPSDKEGYSGVGLLSRQCPLKVSYGIGDEE
HDQEGRVIVAEFDSFVLVTAYVPNAGRGLVRLEYRQRWDEAFRKF LKGLASRKPLVLCGDLNVAHEEIDLRNPKG
NKKNAGFTPQERQGF GELLQAVPLADSFRLHYPNTPYAYTFWTYMMNARSKNVGWRLDYFLLSHSLLPALCDSKI
RSKALGSDHCPITLYLAL

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FIGURE 865

GGCGCCGCCGCAAACGTCAGTGTACGAGGCAGACGGCGGCAGTGCGGCTTGCTCTTGGAAGTTCAGGCTCGGTTG
TCTTTTGGGAGCCATGGAGAGTGACTTTTATCTGCGTTACTACGTGGGGCACAAGGGCAAGTTCGGCCACGAGTT
CCTGGAGTTTGAGTTTCGACCGGACGGGAAGTTAAGATATGCCAACACAGCAATTACAAGAATGATGTCATGAT
CAGAAAAGAGGCTTATGTACATAAAAGCGTGATGGAGGAACTGAAGAGAATAATTGACGACAGTGAAATTACCAA
AGAGGATGATGCATTGTGGCCTCCTCCTGACCGAGTGGGCCGGCAGGAGCTTGAAATCGTCATTGGAGATGAACA
CATTCTTTTACAACATCAAAAATTGGTTCCTTATTGATGTCAATCAATCCAAGGATCCAGAAGGCTTACGAGT
ATTTTATTATCTTGTCCAGGACCTGAAGTGTTTGGTCTTCAGTCTTATTGGATTACACTTCAAGATTAAACCAAT
CTAGACTGAATATTGGTGTGGACATGGGGGGTGGGTGGGAGTAGAAAATTTTGTGTATATCAGGGCAGTATTTT
TTATGAACTATAAATGATTGTCTTTAATAAATATGTGATAAAATCCAATTTTATTATTTTATAAAGACCTGAAC
ATGTGAAAAAAAAAAAAAAAAA

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FIGURE 866

MESDFYLRYVVGHKGFGEFLEFEFRPDGKLRYANNSNYKNDVMIRKEAYVHKSVMEELKRIIDDSEITKEDDA
LWPPDRVGRQELEIVIGDEHISFTTSKIGSLIDVNQSKDPEGLRVFYLVQDLKCLVFSLIGLHFKIKPI

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FIGURE 867

CATTTTCATTGGCGTTTGTAGTCAGCAAAGAAGTCAAGATGGCCAAAGTTCCAGACATGTTTGAAGACCTGAAGAAC
TGTTACAGTGAAGATGAAGAAGACAGTTCCCTCCATTGATCATCTGTCTCTGAATCAGAAATCCTTCTATCATGTA
AGCTATGGCCCACTCCATGAAGGCTGCATGGATCAATCTGTGTCTCTGAGTATCTCTGAAACCTCTAAAACATCC
AAGCTTACCTTCAAGGAGAGCATGGTGGTAGTAGCAACCAACGGGAAGGTTCTGAAGAAGAGACGGTTGAGTTTA
AGCCAATCCATCACTGATGATGACCTGGAGGCCATCGCCAATGACTCAGAGGAAGAAATCATCAAGCCTAGGTCA
GCACCTTTTGTAGCTTCTGAGCAATGTGAAATACAACCTTTATGAGGATCATCAAATACGAATTCATCTGAATGAC
GCCCTCAATCAAAGTATAATTGAGCCAATGATCAGTACCTCACGGCTGCTGCATTACATAATCTGGATGAAGCA
GTGAAATTTGACATGGGTGCTTATAAGTCATCAAAGGATGATGCTAAAATTACCGTGATTCTAAGAATCTCAAAA
ACTCAATTGTATGTGACTGCCCAAGATGAAGACCAACCAGTGCTGCTGAAGGAGATGCCTGAGATACCCAAAACC
ATCACAGGTAGTGAGACCAACCTCCTCTTCTTCTGGGAAACTCACGGCACTAAGAACTATTTACATCAGTTGCC
CATCCAAACTTGTATTATTGCCACAAAGCAAGACTACTGGGTGTGCTTGGCAGGGGGGCCACCCTCTATCACTGAC
TTTCAGATACTGGAAAACCAGGCGTAGCTCTGGAGTCTCACTTGTCTCACTTGTGCAGTGTGACAGTTTCATATG
TACCATGTACATGAAGAAGCTAAATCCTTTACTGTTAGTCATTTGCTGAGCATGTACTGACCCTTGTAATTTCTAA
ATGAATGTTTACACTCTTTGTAAGAGTGGAACCAACACTAACATATAATGTTGTTATTTAAGAACACCCTATAT
TTTGCATAGTACCAATCATTTTAATTATTATTCTTCATAACAATTTTAGGAGGACCAGAGCTACTGACTATGGCT
ACCAAAAAGACTCTACCCATATTACAGATGGGCAAATTAAGGCATAAGAAAATAAGAAATATGCACAATAGCAG
TTGAAACAAGAAGCCACAGACCTAGGATTTTCATGATTTCACTTCACTGTTTGCCTTCTACTTTTAAGTTGCTGA
TGAACCTCTTAATCAAATAGCATAAGTTTCTGGGACCTCAGTTTATCATTTTCAAATGGAGGGAATAATACCTA
AGCCTTCCTGCCGCAACAGTTTTTTATGCTAATCAGGGAGGTCATTTTGGTAAAATACTTCTTGAAGCCGAGCCT
CAAGATGAAGGCAAAGCACGAAATGTTATTTTTTAATTATTATTATATATGTATTATAAATATATTTAAGATA
ATTATAATATACTATATTTATGGGAACCCCTTCATCCTCTGAGTGTGACCAGGCATCCTCCACAATAGCAGACAG
TGTTTTCTGGGATAAGTAAGTTTGATTTTCATTAATACAGGGCATTTTGGTCCAAGTTGTGCTTATCCCATAGCCA
GGAAACTCTGCATTCTAGTACTTGGGAGACCTGTAATCATATAATAAATGTACATTAAATTACCTTGAGCCAGTAA
TTGGTCCGATCTTTGACTCTTTTGCCATTAACTTTACCTGGGCATTCTTGTTCATTCAATTCCACCTGCAATCA
AGTCCTACAAGCTAAAAATTAGATGAACTCAACTTTGACAACCATGAGACCCTGTTATCAAAGTTGAGTTTCATCT
AATTTTAGCTTGTAGAGACGGGATTTACCATCTTGGCCGTGCTGGTCTCGAAGTTCTGACCTCGTGATCCACCC
GCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCATCGCGCCCGGCCTGGAGTTTCTACTGTGCACCAG
GCACTACCTTTACATGTATTGTTTTATTTAATCCTCAGTCAGCCGTGTTTGGIAGGTGCAGTTAGTATATTTCCA
TTTTCATCTGCGCAAAACAGATTTCAGGAACCTTTGTAATTTACATAAGGTCACATTCATCCTAATTCACAAAATCAA
GATTTTCACACCTATTCTTTTTCTTTCCAGTGCCTGTGCTTTTTCTCTCATACCAAGGAGAAGTAATAAGCCTAA
CGTTTTAAACCTCACAAAAGTACATACAGAAAAGTAAATAGCCTAATTTTGCAACTAATACAAATGGCGCTGTAC
TTCTTTGGTGATGGTAGATTTATAATTTTTGAAGTATGGTAGATTCAAATGAACCACTGAAAAGGCATTTAGTTT
CTTGTCCTCAAATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 868

MAKVPDMFEDLKNCYSENEEDSSSIDHLSLNQKSFYHVSYGPLHEGCMQSVLSISETSKTSKLTFKESMVVVA
TNGKVLKKRRLSLSQSITDDDLEAIANDSEEEIIPRSAPFSFLSNVKYNFMRIIKYEFILNDALNQSIIRANDQ
YLTAAALHNLDEAVKFDMGAYKSSKDDAKITVILRISKIQLYVTAQDEDQPVLLKEMPEIPKTIITGSETNLLFFW
ETHGKKNYFTSVAHPNLFIAKQDYWVCLAGGPPSITDFQILENQA

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FIGURE 869

AGCAGCTCCAACCAGGGCAGCCTTCCTGAGAAGATGCAACCAATCCTGCTTCTGCTGGCCTTCCTCCTGCTGCCC
AGGGCAGATGCAGGGGAGATCATCGGGGACATGAGGCCAAGCCCCACTCCGCCCCCTACATGGCTTATCTTATG
ATCTGGGATCAGAAGTCTCTGAAGAGGTGCGGTGGCTTCCTGATACAAGACGACTTCGTGCTGACAGCTGCTCAC
TGTTGGGGAAGCTCCATAAATGTCACCTTGGGGGCCCCACAATATCAAAGAACAGGAGCCGACCCAGCAGTTTATC
CCTGTGAAAAGACCCATCCCCATCCAGCCTATAATCCTAAGAACTTCTCCAACGACATCATGCTACTGCAGCTG
GAGAGAAAGGCCAAGCGGACCAGAGCTGTGCAGCCCCTCAGGCTACCTAGCAACAAGGCCCAGGTGAAGCCAGGG
CAGACATGCAGTGTGGCCGGCTGGGGGCAGACGGCCCCCTGGGAAAACACTCACACACACTACAAGAGGTGAAG
ATGACAGTGCAGGAAGATCGAAAGTGCGAATCTGACTTACGCCATTATTACGACAGTACCATTGAGTTGTGCGTG
GGGGACCCAGAGATTAAAAAGACTTCCTTTAAGGGGGACTCTGGAGGCCCTCTTGTGTGTAACAAGGTGGCCCCAG
GGCATTGTCTCCTATGGACGAAACAATGGCATGCCTCCACGAGCCTGCACCAAAGTCTCAAGCTTTGTACACTGG
ATAAAGAAAACCATGAAACGCTACTAACTACAGGAAGCAAATAAGCCCCGCTGTAATGAAACACCTTCTCTGG
AGCCAAGTCCAGATTTACACTGGGAGAGGTGCCAGCAACTGAATAAATACCTCTCCAGTGTAAATCTGGAGCCA
AGTCCAGATTTACACTGGGAGAGGTGCCAGCAACTGAATAAATACCTCTTAGCTGAGTGG

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FIGURE 870

MQPILLLLAFLLLPRADAGEIIGGHEAKPHSRPYMAYLMIWDQSLKRCGGFLIQDDFVLTAHCGSSINVTLG
AHNIKEQEPTQQFIPVKRPIPHPAYNPKNFSNDIMLLQLERKAKRTRAVQPLRLPSNKAQVKPGQTCVAGWGQT
APLGKHSHTLQEVKMTVQEDRKCESDLRHYYDSTIELCVGDPEIKKTSFKGDSGGPLVCNKVAQGIVSYGRNNGM
PPRACTKVSSFVHWIKKIMKRY

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FIGURE 871

ACAGACTGCCAAATGGAACAGACAAGCAGGTTGTCTTGTGTTAAAGAAAATGAGATATGAGTCAGTTACTCCCGG
AGGCAATGCTGCTGTTTACGCTCTTGTGTTTTTGTGGCCAGGGTCTTCATGAACACTAATAGGGGTACCAGGCCCT
CTTCCTTGTTAGAAAGAAATCAGGATAACAAAGGTATATTGGGCACCCCTACAAAAGGAATCTGTATCTGTATCAA
GATGATCTGAAGAACAGCTTCTACCTTTAGGAATGTCTAGTGTTCAAAATGACTAGCATCTTCCATTTTGCCAT
TATCTTCATGTTAATACTTCAGATCAGAATACAATTATCTGAAGAAAGTGAATTTTTAGTTGATAGGTCAAAAAA
CGGTCTCATCCACGTTCTTAAAGACCTATCCCAGAAAACAACAATCTTAAATATATCGCAAAATTATATATCTGA
GCTTTGGACTTCTGACATCTTATCACTGTCAAACTGAGGATTTTGATAATTTCTCATAATAGAATCCAGTATCT
TGATATCAGTGTTTTCAAATTCAACCAGGAATTGGAATACTTGGATTTGTCCACAACAAGTTGGTGAAGATTTT
TTGCCACCTACTGTGAACCTCAAGCAGCTTGGACCTGTCAATTAATGCATTGATGCCCTGCCATATGCAAGA
GTTTGGCAATATGTCTCAACTAAAATTTCTGGGGTTGAGCACCACACACTTAGAAAAATCTAGTGTGCTGCCAAT
TGCTCATTGAAATATCAGCAAGGTCTTGCTGGTCTTAGGAGAGACTTATGGGGAAGAAAGACCCCTGAGGGCCCT
TCAAGACTTTAACACTGAGAGTCTGCACATTGTGTTCCCCACAACAAGAAATTCATTTTATTTTGGATGTGTC
AGTCAAGACTGTAGCAATCTGGAATATCTAATATCAATGTGTGCTAGAAGATAACAATGTTCTTACTTCTCT
AAGTATTCTGGCGAAACTTCAAACAATCCAAAGTTATCAAGTCTTACCTTAAACAACATTGAAACAACCTTGAA
TTCTTTTATTAGGATCCTCCAGCTGGTTTGGCATACACTGTATGGTATTTCTCAATTTCAAACGTGAAGCTACA
GGGTGAGCTGGACTTCAGAGATTTTGATTATCTGGCACTTCTTGAAGGCCCTGTCTATACACCAAGTTGTCAG
CGATGTGTTCCGTTTTCCGCAAAGTTATATCTATGAAATCTTTTGAATATGAACATCAAAAAATTCACAGTGT
TGGTACACGCATGGTCCACATGCTTTGCCCATCCAAATTAGCCCGTTCTGCATTGGATTTTCCAATAATCT
CTTAACAGACACGGTTTTTGAATTTGTGGGCACCTTACTGAGTTGGAGACACTATTTTACAAATGAATCAATT
AAAAGAATCTTCAAAAATAGCTGAAATGACTACACAGATGAAGTCTCTGCAACAATTGGATATTAGCCAGAATTC
TGTAAGCTATGATGAAAAGAAAGGAGACTGTTCTGGACTAAAAGTTTATTAAGTTTAAATATGTCTTCAAATAT
ACTTACTGACACTATTTTTCAGATGTTTACCTCCAGGATCAAGGTACTTGATCTTCACAGCAATAAAATAAGAG
CATTCTTAAACAAGTCGTAAGCTGGAAGCTTTGCAAGAACTCAATGTTGCTTTCAATTTCTTAACTGACCTTCC
TGGATGTGGCAGCTTTAGCAGCCTTTCTGTATTGATCATTGATCACAATTCAGTTTCCACCCATCAGCTGATTT
CTTCCAGAGCTGCCAGAAGATGAGGTCAATAAAAGCAGGGGACAATCCATTCCAATGTACCTGTGAGCTAGGAGA
ATTTGTCAAAAATATAGACCAAGTATCAAGTGAAGTGTAGAGGGCTGGCCTGATTCTTATAAGTGTGACTACCC
GGAAAGTTATAGAGGAACCTACTAAAGGACTTTCACATGTCTGAATTATCCTGCAACATAACTCTGCTGATCGT
CACCATCGTTGCCACCATGCTGGTGTGGCTGTGACTGTGACCTCCCTCTGCATCTACTTGGATCTGCCCTGGTA
TCTCAGGATGGTGTGCCAGTGGACCCAGACCCGCGCAGGGCCAGGAACATACCCCTAGAAGAACTCCAAAGAAA
TCTCCAGTTTTCATGCAATTTATTTTCAATATAGTGGGCACGATTCTTTCTGGGTGAAGAATGAATTATTGCCAAACCT
AGAGAAAGAAGGTATGCAGATTTGCCTTCATGAGAGAACTTTGTTTCTGGCAAGAGCATTGTGGAAAATATCAT
CACCTGCATTGAGAAGAGTTACAAGTCCATCTTTGTTTTGTCTCCCAACTTTGTCCAGAGTGAATGGTGCCATTA
TGAATCTACTTTTGCCCATCACAATCTCTTTTATGAAGGATCTAATAGCTTAACTCTGATCTTGTGGAACCCAT
TCCGCAGTACTCCATTCCTAGCAGTTATCACAAGCTCAAAAGTCTCATGGCCAGGAGGACTTATTGGAATGGCC
CAAGGAAAAGAGCAAACGTGGCCTTTTTTGGGCTAACTTAAGGGCAGCCATTAAATATTAAGCTGACAGAGCAAGC
AAAGAAATAGATTACACATCAAGTGAAAAATATTCCTCCTGTTGATATTGCTGCTTTTGGAAAGTTCCAACAATGA
CTTTATTTTGCATCAGCATAGATGTAAACACAATTGTGAGTGTATGATGTAGGTAAAAATATATACCTTCGGGT
GCAGTTCACCATTTATATGTGGTATTAAAAATTAATGAAATGATATAACTTTGATTT

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FIGURE 872

MTSIFHFALIFMLILQIRIQLSESEFLVDRSKNGLIHVPKDL SQKTTILNISQNYISELWTS DILSLSKLRILI
ISHNRIQYLDISVFKFNQELEYLDLSHNKLVKISCHPTVNLKHLDSL FNAFDALPICKEFGNMSQLKFLGLSTTH
LEKSSVLPPIAHLNISKVLLVLGETYGEKEDPEGLQDFNTESLHIVFPTNKEFHFI LDVSVKTVANLELSNICKVL
EDNKCSYFLSILAKLQTNPKLSSLTLNNIETTWN SFIRILQLVWHTTVWYF SISNVKLQGGQLDFRDFDYSGTSLK
ALSIHQVSDVFGFPQSYIYEIFSNMNIKNFTVSGTRMVHMLCPSKISPFLHLD FSNLLTDTVFENC GHLTELE
TLILQMNQLKELSKIAEMTTQMKS LQQLDISQNSVSYDEKKGDCSWTKSLLSLNMSSNILTDTIFRCLPPRIKVL
DLHSNKIKSIPKQVVKLEALQELNVAFNSLTDLPGCGSFSSLSVLIIDHNSVSHPSADFFQSCQKMRSIKAGDNP
FQCTCELGEFVKNIDQVSSEVLEGWPD SYKCDYPE SYRGTL LKDFHMS ELS CNITLLIVTIVATMLVLAVTVTSL
CIYLDLPWYLRMVCQWTQTRRRARNIPLEELQRNLQFHAFISYSGHDSFWVKNELLPNLEKEGMQICLHERNFVP
GKSIVENIITCIEKSYKSIFVLSPNFVQSEWCHYELYFAHNNLFHEGSNSLILILLEPI PQYSIPSSYHKLKSLM
ARRTYLEWPKEKSKRGLFWANLRAAINIKLTEQAKK

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FIGURE 873

GTCTGAGGCTCGGCCGCTGAGCCGCGGACGGTTTGCTGAGCCCGTTAGTGCGCCCGGCCGAGACACGCCGCCGC
CATGTCCCGCTACCTGCGTCCCCCAACACGTCTCTGTTTCGTACGGAACGTGGCCGACGACACCAGGTCTGAAGA
CTTGCGGCGTGAATTTGGTCGTATGGTCCTATAGTTGATGTGTATGTTCCACTTGATTTCTACACTCGCCGTCC
AAGAGGATTTGCTTATGTTCAATTTGAGGATGTTTCGTGATGCTGAAGACGCTTTACATAATTTGGACAGAAAGTG
GATTTGTGGACGGCAGATTGAAATACAGTTTGCCAGGGGGATCGAAAGACACCAAATCAGATGAAAGCCAAGGA
AGGGAGGAATGTGTACAGTTCTTACGCTATGATGATTATGACAGATACAGACGTTCTAGAAGCCGAAGTTATGA
AAGGAGGAGATCAAGAAGTCGGTCTTTTGATTACAACATAGAAAGATCGTATAGTCCTAGAAACAGTAGACCGAC
TGGAAGACCACGGCGTAGCAGAAGCCATTCCGACAATGATAGATTCAAACACCGAAATCGATCTTTTCAAGATC
TAAATCCAATTCAGATCACGGTCCAAGTCCCAGCCCAAGAAAGAAATGAAGGCTAAATCACGTTCTAGGTCTGC
ATCTCACACCAAACTAGAGGCACCTCTAAAACAGATTCCAAAACACATTATAAGTCTGGCTCAAGATATGAAAA
GGATCAAGGAAAAAAGAACCACCTAGATCCAAATCTCAGTCAAGATCACAGTCTAGGTCTAGGTCAAAATCTAG
ATCAAGGTCTTGGACTAGTCTTAAGTCCAGTGGCCACT**CGA**TAGTATAAACCATGGTCATTTTTAGGCATGTATCA
TTCAATTTACTCATAGTTTGGTTTACTTAAATTATCAGGAATACAATGTTGCAATGATGCTTAAAAAACACTTGTT
AGTTTTCCCTGTACCAGGCAATGGTTATAATTAATGATATGCTGTTGAGAAGCCACTCTTAAGAGTCCAGTTT
GTTTTAATGTTATGGGCAGCTACCAATTTGTGGTGTCTCTGTATATTTTTGTAAAGATTCTCATTTTTATGCTTG
AAGTATTTGGTGAAGATGTTGGTTGACCATAATTTGCAACATTGTCTCATTAAAAATAAACTTTTCATATTCAT
ATTTGGTAGAACTGTTAACCTAGAAATGTAGCTTGCTAATAAGATAGAATGATACAAAAGTGAAGTAGTAGCCAC
AGTACAACACTGACTGCTCAGACACATTTAGGTTCAGGGTGGACCTTTATGCTTGTCAAGATGTCTAGGCCCCG
CTGGGCGTGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCGAGGCCGGCGGATCACGAGGTCAAGGATT
CGAGACCAGCCTGACCAACACGGTGAACCCCGTCTCTACTAAAAATACAAAATATCCGGGCATGGTGGCACA
TGCCTGTAATCTCAGCTACTCAGGAGGCTGAGGCAAGAGAATCGCTTGAACCTGGGAGGTAGAAGTGCAGTGAG
CCAAAATCACGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCCGTCTCAAAAAAAAAAAAAACCGGATG
TCTAGGCCAATGATAATTATTTTTGATGCAGTGTGGATTAGTTCTTTGTTAACCCCACTGTCTTGGGGAATGAT
GCCAGCTGGGAAATTGAGTTTTGACTGAAACATGGAGCCTTCACTGCTTTTTTCTGGTTCTATGAAGATTTG
GAACATAGAAAACACAAAACTCACCTTAAATTTGAGCAGGTCGTTGATGGCAAAAATAATTTTAAGGAAAAAG
GAATATTTCTATGTAGTTATCTAAAGTTAAGGAGCGTTGTTGACCATAATATTGCTTAGTTTTCTTACTGCTG
TTAAGTAAGTAAATTGTTCAAAGTAGGTTTTGTGTGTGTGTGCCTAGTGTAAGAAGTGAATTTTGATGCTT
ACAGCACTTGGCTCGTGCATTTGTATCAAATTTGCCTGCCTCTTTATGAGGGAGGCCTGCTTTTCACACCTCAG
TTTATTTAATACGAGGCAAGTTGTAAGACAACACTCATTTAGGTGATTCTGTGGTGCCATGAAATTTAAGGTAA
TTTGGGAAAAGGATTAGTCAGTTTTAAGCAAGAGTCACATCTTTTGAGCTTTTCGATTATCAGTGTAGTACCTGA
CTAAAAATGAAGTAATACCCTTAAACCATTATAATTTCTAGTATTTCTCTGAAAGATCGTTTTGGGGACAAAAG
TGACTTGACATGTCCAATTTCAATTCAGAAATAAAGCTAGCATCTTTAAAAATCTCAGATTGCTTGCTTACAGA
TACAAGTACGAATTATGGACAAACGATTCTTTTAGAGGATTACTTTTTCAATTTTCGGTTTTAGTAATCTAGGC
TTTGCCTGTAAAGAATACAACGATGGATTTAAATACTGTTTGTGGAATGTGTTAAAGGATTGATTCTAGAACC
TTTGTATATTTGATAGTATTTCTAACTTTCAATTTCTTTACTGTTTGCAAGTTAATGTTTCTGCTATGCAAT
CGTTTATAIGCACGTTTCTTAAATTTTTTAGATTTTCTGGATGTATAGTTTAAACAACAAAAGTCTATTTAA
AACTGTAGCAGTAGTTTACAGTTCTAGCAAAGAGGAAAGTTGTGGGGTTAACTTTGTATTTTCTTTCTATAGA
GGCTTCTAAAAAGGTATTTTTATATGTTCTTTTAACAAATATGTGTACAACCTTTAAACATCAATGTTTGA
TCAAAACAAGACCCAGCTTATTTCTGCTTGCTGTAAATTAAGCAAACATGCTATAATAAAAAACAAATGAAGG

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FIGURE 874

MSRYLRPPNTSLFVRNVADDTRSEDLRREFGRYGPIVDVYVPLDFYTRRPRGFAYVQFEDVRDAEDALHNLDRKW
ICGRQIEIQFAQGDRKTPNQMKAKEGRNVYSSRYDDYDRYRRSRRSYERRRSRSDYNYRRSYSPRNSRPT
GRPRRSRSHSDNDRFKHRNRSFSRSKSNRSRSKSKQPKKEMKAKSRRSASHTKTRGTSKTDKTHYKSGSRYEK
ESRKKEPPRSKSKSRSQSRSRSKSRSRSWTSPKSSGH

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FIGURE 875

CAGTCCCCAAACCTAGAAATAAACTATTGGTATATTCTGGTGAATTCCTGTTTCCCTTTCTGTCTTTTTCTATT
CAITTTTGTATCTTTTTTTTTAAAAAAGGTAACCTAAATGGACTCGTACAGCTTATATGCTTGTACGTTCTGAT
GTCCCCCATGTCTTCAGAAATCTTGTTATAGCTGCCGTGTTCTACTTTTGTGGATGCACTATAATTTACTTAAC
TCTCATCTTGATGGATTTTAAGGATGTTTCCAATTTTTTCATACTAGTAAATAACTCTGCTAAAGATATGAAGC
CTGGAATTGGCAGAGATATTTTAAGACTCTAGATACATACTGGCAAAATGTTTTCCAGAAACGTTTGATTCAAC
TACTATTGCAGATGAGAATACCTGTCTTTCACCTCAGTTATAATTCTGATATTATAACGCTAAATCTCTGCAAA
TTTGATGGGTGAAAAAGCATCTTATTGTAATTGTAATTTTTGTGTTAGTAAGGTGGAATGTTCTTTTTTATATTT
TTTGTACTGGTTCATATTTTAAGGAACGTGATAAAGAAGTAAGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGA
AGAAGAAAAAGAAAAAGAGAGAAAGAGTCGGAAGACAAACCTGAAATGAAGATGTTGGTTCTGATGAGGAAGA
AGAAAAGAAGGATGGTGACAAGAAGAAGAAGAAGATTAAGGAAAAGTACATCGATCAAGAAGAGCTCAACAA
AACAAAGCCCATCTGGACCAGAAATCCCGACGATATTACTAATGAGGAGTACGGAGAATTTCTATAAGAGCTTGAC
CAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTTTCAGTTGAAGGACAGTTGGAATTCAGAGCCCTTCTATT
TGTCCACGACGTGCTCCTTTTGATCTGTTTGAAACAGAAAGAAAAAGAACAATATCAAATTGTATGTACGCAG
AGTTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAATATCTGAACTTCATTAGAGGGGTGGTAGACTCGGA
GGATCTCCCTCTAAACATATCCCGTGAGATGTTGCAACAAAGCAAAATTTTGAAAGTTATCAGGAAGAATTTGGT
CAAAAATGCTTAGAACTCTTACTGAACTGGCGGAAGATAAAGAGAACTACAAGAAATTTCTATGAGCAGTTCTC
TAAAAACATAAGCTTGGAAATACACGAAGACTCTCAAATCGGAAGAAGCTTTCAGAGCTGTTAAGGTACTACAC
ATCTGCCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTACTGCACCAGAATGAAGGAGAACCAGAAACATATCTA
TTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCAGCCTTTGTGGAACGTCTTCGGAACATGGCTTAGA
AGTGATCTATATGATTGAGCCCATGATGAGTACTGTGTCCAACAGCTGAAGGAATTTGAGGGGAAGACTTTAGT
GTCAGTCACCAAAGAAGGCCTGGAACCTCCAGAGGATGAAGAAGAGAAAAAGCAGGAAGAGAAAAAACAA
GTTTGAGAACCTCTGCAAAATCATGAAAGACATATTGGAGAAAAAGTTGAAAAGGTGGTTGTGTCAAACCGATT
GGTGACATCTCCATGCTGTATTGTCACAAGCACATATGGCTGGACAGCAAACATGGAGAGAATCATGAAAGCTCA
AGCCCTAAGAGACAACCTCAACAATGGGTTACATGGCAGCAAAGAAACACCTGGAGATAAACCTGACCATTCCAT
TATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAACGACAAGTCTGTGAAGGATCTGGTCATCTTGCTTTA
TGAAACTGCGCTCCTGTCTTCTGGCTTCAGTCTGGAAGATCCCCAGACACATGCTAACAGGATCTACAGGATGAT
CAAACCTGGTCTGGGTATTGATGAAGATGACCCTACTGCTGATGATAACAGTGTGCTGTAACCTGAAGAAATGCC
ACCCCTTGAAGGAGATGACGACACATCACGCATGGAAGAAGTAGACTAATCTCTGGCTGAGGGATGACTTACCTG
TTCAGTACTCTACAATTCCTCTGATAATATATTTTCAAGGATGTTTTTCTTTATTTTTGTTAATATTAAGGTC
TGTATGGCATGACAACCTACTTTAAGGGGAAGATAAGATTTCTGTCTACTAAGTGATGCTGTGATACCTTAGGCAC
TAAAGCAGAGCTAGTAATGCTTTTTGAGTTTCATGTTGGTTTTATTTTACAGATTGGGGTAACGTGCACTGTAAG
ACGTATGTAACATGATGTTAACTTTGTGTGGTCTAAAGTGTGTTAGCTGTCAAGCCGGATGCCTAAGTAGACCAAA
TCTTGTTATTGAAGTGTCTGAGCTGTATCTTGATGTTTAGAAAAATTCGTTACATCTTGTAGGATCTACTTT
TTGAACCTTTTCATTCCCTGTAGTTGACAATTCGCATGTACTAGTCCTCTAGAAATAGGTTAACTGAAGCAACT
TGATGGAAGGATCTCTCCACAGGGCTGTTTTCCAAAGAAAAGTATTGTTTGGAGGAGCAAAGTTAAAGCCTAC
CTAAGCATATCGTAAAGCTGTTCAAAAATAACTCAGACCCAGTCTGTGGATGGAAATGTAGTGCTCGAGTCACA
TTCTGCTTAAAGTTGTAACAAATACAGATGAGT

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FIGURE 876

MGEKASYCNCNFCVSKVECSFLYFLYWSYFKERDKEVSDDEAEKEDKEEKEKEEKESEDKPEIEDVGSDEEEE
KKDGDKKKKKKIKKEYIDQEELNKTPIWTRNPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFV
PRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFIIRGVVDSDELPLNISREMLQQSKILKVIRKNLVK
KCLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYTTSASGDEMVSCLKDYCTRMKENQKHIYY
ITGETKDQVANSASFVERLRKHGLEVIYMIPIDEYCVQQLKEFEGKTLVSVTKGLELPEDEEEKKKQEEKKTKF
ENLCKIMKDILEKKVEKVVSNNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSII
ETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGIDEDDPTADDTSAAVTEEMP
LEGDDDTSRMEEVD

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FIGURE 877

GCTGGAGGATGTGGCTGCAGAGCCTGCTGCTCTTGGGCACTGTGGCCTGCAGCATCTCTGCACCCGCCCCGCTCGC
CCAGCCCCAGCACGCAGCCCTGGGAGCATGTGAATGCCATCCAGGAGGCCCGCGTCTCCTGAACCTGAGTAGAG
ACACTGCTGCTGAGATGAATGAAACAGTAGAAGTCATCTCAGAAATGTTTGACCTCCAGGAGCCGACCTGCCTAC
AGACCCGCTGGAGCTGTACAAGCAGGGCCTGCGGGGCAGCCTCACCAAGCTCAAGGGCCCTTGACCATGATGG
CCAGCCACTACAAGCAGCACTGCCCTCCAACCCCGGAAACTTCCTGTGCAACCCAGACTATCACCTTTGAAAGTT
TCAAAGAGAACCTGAAGGACTTTCTGCTTGTCATCCCTTTGACTGCTGGGAGCCAGTCCAGGAGTGAGACCCGGC
CAGATGAGGCTGGCCAAGCCGGGAGCTGCTCTCATGAAACAAGAGCTAGAAACTCAGGATGGTCATCTTGGA
GGGACCAAGGGGTGGGCCACAGCCATGGTGGGAGTGGCCTGGACCTGCCCTGGGGCCACACTGACCCTGATACAGG
CATGGCAGAAGAATGGGAATATTTTATACTGACAGAAATCAGTAATATTTATATATTTATATTTTAAAAATATTT
ATTTATTTATTTATTTAAGTTCATATTCATATTTATTCAAGATGTTTTACCGTAATAATTATTATTTAAAAATAT
GCTTCT

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FIGURE 878

MWLQSLLLGTVACSSAPARSPSPSTQFWEHVNAIQEARRLLNLSRDTAAEMNETVEVISEMFDLQEPTCLQTR
LELYKQGLRGSLTKLKGPLTMMASHYKQHCPPTPETS CATQTITFESFKENLKDFLLVIPFDCWEPVQE

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FIGURE 879

AGGGGACAAGTCTAGGAGGTCTCTGAGGTTACTGTACCCATCCCTCCTTCATCTCCCTCCAGCATTTGTTTCTGG
AAGGAGTCAACACCAACAGCTCTGACCTGGGCAGCCTTCCTGAGAAAATCAGCCATTCTCTCCTGTTGGCCT
TTCTTCTGACCCCTGGGGCTGGGACAGAGGAGATCATCGGGGGCCATGAGGCCAAGCCCCACTCCCGCCCTACA
TGGCCTTTGTTTCAGTTTCTGCAAGAGAAGAGTCGGAAGAGGTGTGGCGGCATCCTAGTGAGAAAGGACTTTGTGC
TGACAGCTGCTCACTGCCAGGGAAGCTCCATAAATGTCACCTTGGGGGCCACAATATCAAGGAACAGGAGCGGA
CCCAGCAGTTTATCCCTGTGAAAAGACCCATCCCCCATCCAGCCTATAATCCTAAGAACTTCTCCAACGACATCA
TGCTACTGCAGCTGGAGAGAAAGGCCAAGTGGACCACAGCTGTGCGGCCTCTCAGGCTACCTAGCAGCAAGGCCC
AGGTGAAGCCAGGGCAGCTGTGCAGTGTGGCTGGCTGGGGTTATGTCTCAATGAGCACTTTAGCAACCACACTGC
AGGAAGTGTGCTGACAGTGCAGAAGGACTGCCAGTGTGAACGTCTCTTCCATGGCAATTACAGCAGAGCCACTG
AGATTTGTGTGGGGATCCAAAGAAGACACAGACCGTTTCAAGGGGGACTCCGGGGGGCCCTCGTGTGTAAGG
ACGTAGCCCAAGGTATTCTCTCTATGGAAACAAAAAGGGACACCTCCAGGAGTCTACATCAAGGTCTCACACT
TCCTGCCCTGGATAAAGAGAACAATGAAGCGCCTCTAACAGCAGGCATGAGACTAACCTTCCTCTGGGCCTGACC
ATCTCTGGGACAGAGGCAAGAATCCCAAGGGGTGGGCAGTCGGGGTTGCAGGACTGTAATAAATGGATCTCTGGT
GTAATATGACTG

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FIGURE 880

MQPFLLLLAFLLTPGAGTEEIIGGHEAKPHSRPYMAFVQFLQEKSRKRCGGILVRKDFVLTAHCQGSSINVTLG
AHNIKEQERTQQFIPVKRPIPHPAYNPKNFSNDIMLLQLERKAKWTTAVRPLRLPSSKAQVKPGQLCSVAGWGYV
SMSTLATTLQEVLLTVQKDCQCERLFHGNYSRATEICVGDPKKTQTGFKGDSGGPLVCKDVAQGILSYGNKKGTP
PGVYIKVSHFLPWIKRTMKRL

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FIGURE 881A

CCCCGATTTTGC GGGGTTTCGT CGGGCCTGTGGAAGAAGCCCCGCCACGGACTTCGGCAGAGGTAGAGCAGGTCTC
TCTGCAGCCATGTCGGCCAAGGCAATTTTCAGAGCAGACGGGCAAAGAATCCTTTACAAGTTTCATCTGTACCACC
TCAGCCATCCAGAATCGGTTCAAGTATGCTCGGGTCACTCCTGACACAGACTGGGCCCCGCTTGCTGCAGGACCAC
CCCTGGCTGCTCAGCCAGAACTTGGTAGTCAAGCCAGACCAGCTGATCAAACGTCGTGGAAGAACTTGGTCTCGTT
GGGGTCGACCTCACTCTGGATGGGGTCAAGTCTGGCTGAAGCCACGGCTGGGACAGGAAGCCACAGTTGGCAAG
GCCACAGGCTTCCTCAAGAATTTCTGATCGAGCCCTTCGCCCCCCACAGTCAGGCTGAGGAGTTCTATGTCTGC
ATCTATGCCACCCGAGAAGGGGACTACGTCTGTTCCACCACGAGGGGGGTGTGGACGTGGGTGATGTGGACGCC
AAGGCCCAGAAGCTGCTTGTGGCGTGGATGAGAACTGAATCCTGAGGACATCAAAAAACACCTGTTGGTCCAC
GCCCTGACGACAAGAAAGAAATTTGGCCAGTTTTATCTCCGGCCTCTTCAATTTCTACGAGGACTTGTACTTC
ACCTACCTCGAGATCAATCCCCTTGTAGTGACCAAGATGGAGTCTATGTCCTTGACTTGGCGGCCAAGGTGGAC
GCCACTGCCGACTACATCTGCAAAGTGAAGTGGGGTGACATCGAGTTCCCTCCCCCTTCGGGCGGGTGGCATAT
CCAGAGGAAGCCTACATTGCAGACCTCGATGCCAAAAGTGGGGCAAGCCTGAAGCTGACCTTGCTGAACCCCCAA
GGGAGGATCTGGACCATGGTGGCCGGGGGTGGCGCCTCTGTCGTGTACAGCGATACCATCTGTGATCTAGGGGGT
GTCAACGAGCTGGCAAACATATGGGGAGTACTCAGGCGCCCCCAGCGAGCAGCAGACCTATGACTATGCCAAGACT
ATCCTCTCCCTCATGACCCGAGAGAAGCACCCAGATGGCAAGATCCTCATATTGGAGGCAGCATCGCAAACCTC
ACCAACGTGGCTGCCACGTTCAAGGGCATCGTGAGAGCAATTCGAGATTACCAGGGCCCCCTGAAGGAGCACGAA
GTCACAATCTTTGTCCGAAGAGGTGGCCCCAACTATCAGGAGGGCTTACGGGTGATGGGAGAAGTCGGAAGACC
ACTGGGATCCCCATCCATGTCTTTGGCACAGAGACTCACATGACGGCCATTGTGGGCATGGCCTGGGCACCGGCC
ATCCCCAACCCAGCCACCCACAGCGGCCCACTGCAAACCTTTCTCCTCAACGCCCAGCGGGAGACATCGACTCCA
GCCCCAGCAGGACAGCATCTTTTTATGAGTCCATGGTTCGATGAGGTGAGGGCCGATGAGGTGGCGCCTGCAAG
AAGGCCAAGCCTGCCATGCCACAAGATTCAGTCCCAAGTCCAAGATCCCTGCAAGGAAGAGCACCACCTCTTC
AGCGGCCACACCAAGGCCATTGTGTGGGGCATGCAGACCCGGGCGGTGCAAGGCATGCTGGACTTTGACTATGTC
TGCTCCGAGACGAGCCCTCAGTGGCTGCCATGGTCTATCCTTTCACTGGGGACCACAAGCAGAAGTTTTACTGG
GGGCACAAAGAGATCCTGATCCCTGTCTTCAAGAATCGCTGATGCCATGAGGAAGCACC CGGAGGTAGATGTG
CTCATCAACTTTGCCTCTCTCCGCTCTGCCTATGACAGCACCATGGAGACCATGAACATGCCCCAGATCCGGACC
ATCGCCATCATAGCTGAAGGCATCCCTGAGGCCCTCACGAGAAAGCTGATCAAGAAGGCGGACCAGAAGGGAGTG
ACCATCATCGGACCTGCCACTGTTGGAGGCATCAAGCCTGGGTGCTTTAAGATTGGCAACACAGGTGGGATGCTG
GACAACATCCTGGCCTCCAACTGTACCCCAAGCAGCTGTGGCCTATGTCTCACGTTCCGGAGGCATGTCCAAC
GAGCTCAACAATATCATCTCTCGGACCACGGATGGCGTCTATGAGGGCGTGGCCATTGGTGGGGACAGGTACCCG
GGCTCCACATTATGATCATGTGTTACGCTATCAGGACACTCCAGGAGTCAAAATGATTGTGGTTCTTGGAGAG
ATTGGGGGCACTGAGGAATATAAGATTTCCCGGGGCATCAAGGAGGGCCGCTCACTAAGCCCATCGTCTGCTGG
TGCATCGGGACGTGTGCCACCATGTTCTCCTCTGAGGTCCAGTTTGGCCATGCTGGAGCTTGTGCCAACCAGGCT
TCTGAAACTGCAGTAGCCAAGAACCAGGCTTTGAAGGAAGCAGGAGTGTGTTGCCCCGGAGCTTTGATGAGCTT
GGAGAGATCATCCAGTCTGTATACGAAGATCTCGTGGCCATGAGGATCATTGTACCTGCCAGGAGGTGCCGCC
CCAACCGTGCCCATGGACTACTCCTGGGCCAGGGAGCTTGGTTGATCCGCAAACCTGCCTCGTTCATGACCAGC
ATCTGCGATGAGCGAGGACAGGAGCTCATCTACGCGGGCATGCCCATCACTGAGGTCTTCAAGGAAGAGATGGGC
ATTGGCGGGGCCCTCGGCCTCCTCTGGTTCCAGAAAAGTTGCCTAAGTACTCTTGCCAGTTTCATTGAGATGTGT
CTGATGGTGACAGCTGATCACGGGCCAGCGTCTCTGGAGCCCAACACCATCATTGTGCGCGCACCGCGGTG
GAGCTGGTCTCCAGCCTCACCTCGGGGCTGCTCACCATCGGGGATCGGTTTGGGGGTGCCTTGGATGCAGCAGCC
AAGATGTTTCAGTAAAGCCTTTGACAGTGGCATTATCCCCATGGAGTTTGTGAACAAGATGAAGAAGGAAGGGAAG
CTGATCATGGGCATTGGTACCGAGTGAAGTCGATAACAACCCAGACATGCGAGTGCAGATCCTCAAAGATTAC
GTCAGGCAGCACTTCCCTGCCACTCCTCTGCTCGATTATGCACTGGAAGTAGAGAAGATTACCACCTCGAAGAAG
CCAAATCTTATCCTGAATGTAGATGGTCTCATCGGAGTCGCATTGTAGACATGCTTAGAACTGTGGGTCTTTT
ACTCGGGAGGAAGCTGATGAATATATTGACATTGGAGCCCTCAATGGCATCTTTGTGCTGGGAAGGAGTATGGGG
TTCATTGGACACTATCTTGATCAGAAGAGGCTGAAGCAGGGGCTGATCGTCACTCCGTGGGATGATATTTTCATAT
GTTCTTCCGGAACACATGAGCATGTAAACAGAGCCAGGAACCTACTGCAGTAACTGAAGACAAGAAGCTCTTCCC
CCAAGAAAAAGTGTGACAGAGCTGGCAGTGGAGCCTGCTTTATTTAGCAGGGGCTGGAATGTAAACAGCCACTG
GGGTACAGGCACCGAAGACCAACATCCACAGGCTAACACCCCTCAGTCCACACAAAGAAGCTTCATATTTTTTT

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FIGURE 881B

TATAAGCATAGAAATAAAAACCAAGCCAATATTTGTGACTTTGCTCTGCTACCTGCTGTATTTATTATATGGAAG
CATCTAAGTACIGTCAGGATGGGGTCTTCCTCATTGTAGGGCGTTAGGATGTTGCTTTCTTTTCCATTAGTTAA
ACATTTTTTCTCCTTTGGAGGAAGGGAATGAAACATTTATGGCCTCAAGATACTATACATTTAAAGCACCCCAA
TGTCTCTCTTTTTTTTTTTTTTACTTCCCTTGCTTCTTCCTTATATAACATGAAGAACATTGTATTAATCTGAT
TTTTAAAGACTTTTGTATGTTACGTGTTAAGGGCTTGTGTTGGTATCCCACTGAAATGTTCTGTGTTGCAGACCA
GAGTCTGTTTATGTCAGGGGGAGGGGGCCATTGCATCCTTAGCCATTGTCACAAAATATGTGGAGTAGTAACCTTA
ATATGTAAAGTTGTAACATACATACATTTAAATGGAATGCAGAAAGCTGTGAAATGTCTTGTGTCTTATGTTT
TCTGTATTTATGCAGCTGATTTGTCTGTCTGTAAGTGAAGTGTGGGTCCAAGGACTCCTAACTACTTTGCATCTG
TAATCCACAAAGATTCTGGGCAGCTGCCACCTCAGTCTCTTCTCTGTATTATCATAGTCTGGTTTAAATAAACTA
TATAGTAACAGGAATTCCTGCA

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FIGURE 882

MSAKAISEQTGKELLYKFICTTSAIQNRFKYARVTPD TDWARLLQDHPWLLSQNLVVKPDQLIKRRGKLGVLGV D
LTLDGVKSWLKPRLGQEATVGKATGFLKNFLIEPFAPHSQAEEFYVCIYATREGDYVLFHHEGGVDVGDVDAKAQ
KLLVGVDEKLN PEDIKKHL LVHAPDDKKEILASFISGLFN FYEDLYFTYLEINPLVVT KDGVYVLDLAAKV DATA
DYICKVKWGDI EFPPPFGRVAYPEEAYIADLDAKSGASLKL TLLNPKGRIWTMVAGGGASVVYSD TICDLGGVNE
LANYG EYSGAPSEQQTYDYAKTILSLMTREKHDPDGKILIIGGS IANFTNVAATFKGIVRAIRDYQG PLKEHEVTI
FVRRGGPNYQ EGLRVMGEVGT TGIPIHVFGTETHMTAIVGMAWAPAIPNQPP TAAHTANFLLNAQRETSTPAPS
RTASFYESMVDEVRAD EVAPAKKAKPAMPQDSVPSRSLQ GKSTTLFSRHTKAIVWGMQTRAVQGM LDFDYVCSR
DEPSVAAMVYPFTGDHKQKFYWG HKEILIPVFKNMADAMRKHPEVDVLINFASLRSAYDSTMETMNYAQIRTI AI
IAEG IPEALTRKLIK KADQKGV TIIIGPATVGGIKPGCFKIGNTGGMLDNILASKLYPQA AVAYVSRSGGMSNELN
NII SRTDGVYEGVAIGGDRYPGSTFMDHVLRYQDTPGVKMIVVLGEIGGTEEYKISRGIKEGRLTKPIVCWCIG
TCATMFSSEVQFGHAGACANQASETAVAKNQALKEAGVFVPRSFDELGEIIQSVYEDLVANGVIVPAQEVPPPTV
PMDYSWARELG LIRKPASFMTSICDERGQELIYAGMPITEVFKEEMGIGGALG LLWFQKRLPKYSCQFIEMCLMV
TADHGPAVSGAHNTI ICARTAVELVSSLTSGLLTIGDRFGGALDAAAKMFSKAFDSGIIPMEFVNKMKEGKLIM
GIGHRVKSINNPDMRVQILKDYVRQHFPATPLLDYALEVEKITTSKKPNLILNVDGLIGVAFVDMLRNCGSFTRE
EAD EYIDIGALNGIFVLGRSMGFIGHYLDQKRLKQGLYRHPWDDISYVLPEHMSM

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FIGURE 883

GGCACGAGGGAGAGAGAACTAGTCTCGAGTTTTTTTTTTTTTTTTTTTGTGCAGGTAGGAAATGTCTTTATTATTGG
CCTTGAGTCATCATGTAGTGTCTGACATAGGTTACGTGTCCAGAGGATCTGCCTGGCACACGCTAGCTACCCCTG
CCCCTGGAGCAGCCCCCTCTGGCCGACGCCAGGCCTTTGTCCATCATGCCAGGGAAGCCAAACCCACCATCCAC
AAGTTCATGCTAGGGGTGCTGAGGAACAAGGCTGTCTTAGGATTGGACCTCCATCCTGGACAGGGGTCTGGGG
AGGATGAGGCTGAGGCCTGGATGATCAGTCTCTTTTTTGGTTTCATGATCATTAAAAACAGAAAAGACAAACAT
TTCACAGTCTTTAAAAATAGAAGTCTGAGGAGAGAAGCCAGAGTCTGGGCCCCGGGAGGCCCTCGAGGCCTC
AGCATTCCCTGTCCCTTGAGGTCTGTCTGAGGCCTGGCCACAGCACACGTGGCCCGTTATTGGAGCCAGGCCTA
CACCCAGCAACCATGTCCAAGGGACCTGCAGTTGGTATTGATCTTGGCACCACTACTCTTGTGTGGGTGTTTT
CCAGCACGGAAGTTCGAGATAATTGCCAATGATCAGGGAACCGAACCACTCCAAGCTATGTCGCCTTTACGGA
CACTGAACGGTTGATCGGTGATGCCGAAAGAATCAAGTTGCAATGAACCCACCAACACAGTTTTTGATGCCAA
ACGTCTGATTGGACGCAGATTGATGATGCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGGTGGTGAA
TGATGCTGGCAGGCCCAAGGTCCAAGTAGAATAACAAGGAGAGACCAAAAGCTTCTATCCAGAGGAGGTGTCTC
TATGGTTCTGACAAAGATGAAGGAAATTGCAGAAGCCTACCTTGGGAAGACTGTTACCAATGCTGTGGTCACAGT
GCCAGCTTACTTTAATGACTCTCAGCGTCAGGCTACCAAGATGCTGGAACATTGCTGGTCTCAATGTACTTAG
AATTATTAATGAGCCAACCTGCTGCTGCTATTGCTTACGGCTTAGACAAAAGGTTGGAGCAGAAAGAAACGTGCT
CATCTTTGACCTGGGAGGTGGCACTTTTGATGTGTCAATCCTCACTATTGAGGATGGAATCTTTGAGGTCAAGTC
TACAGCTGGAGACACCACTTGGGTGGAGAAGATTTTGACAACCGAATGGTCAACCATTTTATGCTGAGTTTAA
GCGCAAGCATAAGAAGGACATCAGTGAGAACAGAGAGCTGTAAGACGCCTCCGTACTGCTTGTGAACGTGCTAA
GCGTACCCTCTCTTCCAGCACCCAGGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATACCTC
CATTACCCGTGCCGATTTGAAGAACTGAATGCTGACCTGTTCCGTGGCACCTGGACCCAGTAGAGAAAGCCCT
TCGAGATGCCAACTAGACAAGTCACAGATTCATGATATTGTCTGGTTGGTGGTCTTACTCGTATCCCCAAGAT
TCAGAAGCTTCTCCAAGACTTCTCAATGGAAAAGAACTGAATAAGAGCATCAACCCTGATGAAGCTGTTGCTTA
TGGTGCAGCTGTCCAGGCAGCCATCTTGTCTGGAGACAAGTCTGAGAATGTTCAAGATTTGCTGCTCTTGGATGT
CACTCCTCTTTCCCTTGGTATTGAACTGCTGGTGGAGTCATGACTGTCTCATCAAGCGTAATACCACCATTC
TACCAAGCAGACACAGACCTTCACTACCTATTCTGACAACAGCCTGGTGTGCTTATTAGGTTTATGAAGGCGA
GCGTGCCATGACAAAGGATAACAACCTGCTTGGCAAGTTTGAACCTCACAGGCATACCTCCTGCACCCCGAGGTGT
TCCTCAGATTGAAGTCACCTTTTGACATTGATGCCAATGGTATACTCAATGTCTCTGCTGTGGACAAGAGTACGGG
AAAAGAGAACAAGATTACTATCACTAATGACAAGGCCGTTTGAAGCAAGGAAGACATTGAACGTATGGTCCAGGA
AGCTGAGAAGTACAAGCTGAAGATGAGAAGCAGAGGGAAGGTGTCTATCCAAGAATTCATTGAGTCTATGC
CTTCAACATGAAAGCAACTGTTGAAGATGAGAACTTCAAGGCAAGATTAACGATGAGGACAAACAGAAGATTCT
GGACAAGTGTAATGAAATTATCAACTGGCTTGATAAGAATCAGACTGCTGAGAAGGAAGAATTTGAACATCAACA
GAAAGAGCTGGAGAAAGTTTGCAACCCCATCATCACCAGCTGTACCAGAGTGCAGGAGGCATGCCAGGAGGAAT
GCCTGGGGGATTTCTGGTGGTGGAGCTCCTCCCTCTGGTGGTGTCTCCTCAGGGCCCACCATTTGAAGAGGTTGA
TTAAGCCCAACCAAGTGTAGATGTAGCATTGTTCCACACATTTAAACATTTGAAGGACCTAAATTCGTAGCAAAT
TCTGTGGCAGTTTTAAAAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATAT
GCACAGGGGAAGGAAATAACATTGCACTTTATAAACAAGTATTTGAAGTGGAAAAATGCAATGTCTTAAATAAAA
CTATTTAAATTTGGCACCATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 884

MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDKRLIG
RRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNNAVVTVPAYF
NDSQRQATKDAGTIAGLNVLRINEPTAAAIAYGLDKKVGAEARNVLIFFDLGGGTFDVSILTIEDGIFEVKSTAGD
THLGGEDFDNRMVNHFI AEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASTEIDSLYEGIDFYTSITRA
RFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGA AV
QAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSNQPVGVLIOVYEGERAMT
KDNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAKEY
KADEKQQRDKVSSKNSLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIINWLDKNQTAEKEEFHQQKELE
KVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD

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FIGURE 885

TGAAGATCAGCTATTAGAAGAGAAAGATCAGTTAAGTCCTTTGGACCTGATCAGCTTGATACAAGAACTACTGAT
TTCAACTTCTTTGGCTTAATTCTCTCGGAAACGATGAAATATACAAGTTATATCTTGGCTTTTCAGCTCTGCATC
GTTTTGGGTTCCTTGGCTGTTACTGCCAGGACCCATATGTAAAAGAAGCAGAAAACCTTAAGAAATATTTTAAT
GCAGGTCATTAGATGTAGCGGATAATGGAACCTCTTTCTTAGGCATTTTGAAGAATTGGAAAGAGGAGAGTGAC
AGAAAAATAATGCAGAGCCAAATTGTCTCCTTTTACTTCAAACCTTTTAAAAACTTTTAAAGATGACCAGAGCATC
CAAAAGAGTGTGGAGACCATCAAGGAAGACATGAATGTCAAGTTTTTCAATAGCAACAAAAAGAAACGAGATGAC
TTCGAAAAGCTGACTAATTATTTCGGTAACTGACTTGAATGTCCAACGCAAAGCAATACATGAACCTCATCCAAGTG
ATGGCTGAACGTGCGCCAGCAGCTAAAACAGGGAAGCGAAAAAGGAGTCAGATGCTGTTCAAGGTCGAAGAGCA
TCCCAGTAAATGGTTGTCTGCCTGCAATATTTGAATTTTAAATCTAAATCTATTTATTAATATTTAACATTATTT
ATATGGGGAATATATTTTTAGACTCATCAATCAAATAAGTATTTATAATAGCAACTTTTGTGTAATGAAAATGAA
TATCTATTAATATATGTATTATTTATAATTCCTATATCCTGTGACTGTCTCACTTAATCCTTTGTTTTCTGACTA
ATTAGGCAAGGCTATGTGATTACAAGGCTTTATCTCAGGGGCCAACTAGGCAGCCAACCTAAGCAAGATCCCATG
GGTTGTGTGTTTTATTTCACTTGATGATACAATGAACACTTATAAGTGAAGTGATACTATCCAGTTACTGCCGGTT
TGAAAATATGCCTGCAATCTGAGCCAGTGCTTTAATGGCATGTCAGACAGAAGTGAATGTGTCAGGTGACCCTG
ATGAAAACATAGCATCTCAGGAGATTTTCATGCCTGGTGCTTCCAAATATTGTTGACAAGTGTGACTGTACCCAAA
TGGAAGTAACCTATTTGTTAAAATTATCAATATCTAATATATATGAATAAAGTGTAAGTTCACAACT

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FIGURE 886

MKYTSYILAFQLCIVLGSGLGCYCQDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKNWKEESDRKIMQSQIVSF
YFKLFKNFKDDQSIQKSVETIKEDMNVKFFNSNKKRDDFEKLTNYSVTDLNVQRKAIHELIQVMAELSPAAGTG
KRKRSQMLFQGRRASQ

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FIGURE 887

GGACTGTAACTGTTTCTGGCAAACATGAAGTCAGGCCTCTGGTATTTCTTTCTCTTCTGCTTGCGCATTAAAGT
TTTAACAGGAGAAATCAATGGTTCTGCCAATTATGAGATGTTTATATTTTACAACGGAGGTGTACAAATTTTATG
CAAATATCCTGACATTGTCCAGCAATTTAAATGCAGTTGCTGAAAGGGGGGCAAATACTCTGCGATCTCACTAA
GACAAAAGGAAGTGGAACACAGTGTCCATTAAAGAGTCTGAAATTTGCCATTCTCAGTTATCCAACAACAGTGT
CTCTTTTTTTCTATACAACTTGGACCATTCTCATGCCAACTATTACTTCTGCAACCTATCAATTTTTGATCCTCC
TCCTTTTAAAGTAACCTTTACAGGAGGATATTTGCATATTTATGAATCACAACCTTTGTTGCCAGCTGAAGTTCTG
GTTACCCATAGGATGTGCAGCCTTTGTGTAGTCTGCATTTTGGGATGCATACTTATTTGTTGGCTTACAAAAA
GAAGTATTCATCCAGTGTGCACGACCCTAACGGTGAATACATGTTTCATGAGAGCAGTGAACACAGCCAAAAAATC
TAGACTCACAGATGTGACCCTATAATATGGAACCTCTGGCACCAGGCATGAAGCACGTTGGCCAGTTTTCTCTCA
CTTGAAAGTGCAAGATTCTCTTATTTCCGGGACCACGGAGAGTCTGACTTAACATACATCTTCTGCTGGTGT
TTGTTCAATCTGGAAGAATGACTGTATCAGTCAATGGGGATTTTAAACAGACTGCCTTGGTACTGCCGAGTCTCT
CAAAACAAACACCCTCTTGCAACCAGCTTTGGAGAAAGCCAGCTCCTGTGTGCTCACTGGGAGTGAATCCCTG
TCTCCACATCTGCTCCTAGCAGTGCATCAGCCAGTAAACAAACACATTTACAAGAAAAATGTTTTAAAGATGCC
AGGGGTACTGAATCTGCAAAGCAAATGAGCAGCCAAGGACCAGCATCTGTCCGCAATTTCACTATCATACTACCTC
TTCTTTCTGTAGGGATGAGAATTCCTCTTTAATCAGTCAAGGGAGATGCTTCAAAGCTGGAGCTATTTTATTTT
TGAGATGTTGATGTGAACGTACATTAGTACATACTCAGTACTCTCCTTCAATTGCTGAACCCAGTTGACCATT
TTACCAAGACTTTAGATGCTTTCTTGTGCCCTCAATTTTCTTTTAAAAATACTTCTACATGACTGCTTGACAGC
CCAACAGCCACTCTCAATAGAGAGCTATGTCTTACATTTCTTCTCTGCTGCTCAATAGTTTATATATCTATGC
ATACATATATACACACATATGTATATAAAATTCATAATGAATATATTTGCCTATATTCTCCCTACAAGAATATTT
TTGCTCCAGAAAGACATGTCTTTTCTCAAATTCAGTTAAATGGTTTACTTTGTTCAAGTTAGTGGTAGGAAAC
ATTGCCCGGAATTGAAAGCAAATTTATTTTATATCCTATTTTCTACCATTATCTATGTTTTCATGGTGTCTATTA
ATTACAAGTTTAGTTCTTTTTGTAGATCATATTAATTTGCAAACAAATCATCTTTAATGGGCCAGCATTCTCA
TGGGGTAGAGCAGAATATTCATTTAGCCTGAAAGCTGCAGTTACTATAGGTTGCTGTGAGACTATACCCATGGTG
CCTCTGGGCTTGACAGGTCAAATGGTCCCCATCAGCCTGGAGCAGCCCTCCAGACCTGGGTGGAATTCAGGGT
TGAGAGACTCCCCTGAGCCAGAGGCCACTAGGTATTCTTGCTCCAGAGGCTGAAGTCACCTGCGGAATCACAGT
GGTCTACCTGCATTATAATTCCAGGATCTGTGAAGAGCACATATGTGTGAGGCACAAATCCCTCTCATAAAAA
CCACACAGCCTGGAAATTGGCCCTGGCCCTTCAAGATAGCCTTCTTTAGAATATGATTTGGCTAGAAAGATTCTT
AAATATGTGGAATATGATTATTCTTAGCTGGAATATTTTCTCTACTTCTGTCTGCATGCCCAAGGCTTCTGAAG
CAGCCAATGTGATGCAACAACATTTGTAACCTTAGGTAACTGGGATTATGTTGTAGTTTAAACATTTTGTAACT
GTGTGCTTATAGTTTACAAGTGAGACCCGATATGTCAATTATGCATACTTATATTATCTTAAGCATGTGTAATGCT
GGATGTGTACAGTACAGTACTTAACTTGTAAATTTGAATCTAGTATGGTGTCTGTTTTTCAGCTGACTTGGACAAC
CTGACTGGCTTTGCACAGGTGTTCCCTGAGTTGTTTGCAGGTTTCTGTGTGTGGGTGGGGTATGGGGAGGAGAA
CCTTCATGGTGGCCACCTGGCTGGTTGTCCAGCTGTGCCTCGACACATCCTCATCCCAAGCATGGGACACCT
CAAGATGAATAATAATTACAAAATTTCTGTGAAATCAAATCCAGTTTTAAGAGGAGCCACTTATCAAAGAGATT
TTAACAGTAGTAAGAAGGCAAAGAATAAACATTTGATATTACGCAACTGAAAAA

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FIGURE 888

MKSGWLWYFFLFCRLRIKVLGTGEINGSANYEMFIFHNGGVQILCKYPDIVQQFKMQLLKGGQILCDLTKTKGSGNTV
SIKSLKFCHSQLSNNSVSFFLYNLDHSHANYFFCNLSIFDPPPFKVTLTGGYLHIYESQLCCQLKFWLPICAAF
VVVCILGCILICWLTKKKYSSSVHDPNGEYMFMRVNTAKKSRLTDVTL

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FIGURE 889

GGCACGAGGGTCCGCAAGCCCGGCTGAGAGCGCGCCATGGGGCAGGCGGGCTGCAAGGGGCTCTGCCTGTGCTG
TTCGACTACAAGACCGAGAAGTATGTATCGCCAAGAACAAGGTGGGCCTGCTGTACCGGCTGCTGCAGGCC
TCCATCCTGGCGTACCTGGTTCGTATGGGTGTTCTTGATAAAGAAGGGTTACCAAGACGTCGACACCTCCCTGCAG
AGTGTGTGTATCACCAGTCAAGGGCGTGGCCTTCACCAACACCTCGGATCTTGGGCAGCGGATCTGGGATGTC
GCCGACTACGTCAATCCAGCCAGGGAGAGAAGCTCTTTTTGTGGTCACCAACCTGATTGTGACCCCCAACCCAG
CGGCAGAACGTCTGTGCTGAGAATGAAGGCATTCTGATGGCGCGTGTCCAAGGACAGCGACTGCCACGCTGGG
GAAGCGGTTACAGCTGGAACGAGTGAAGACCGGCCGTGCTGCGGAGAGGGAAGTTGGCCAGGGGCACCTGT
GAGATCTTTGCCTGGTGGCGTTGGAGACAAGCTCCAGGCCGAGGAGCCATTCTGAAGGAGGCCGAAGACTTC
ACCATTTTCATAAAGAACCACATCCGTTTCCCCAAATTCAACTTCTCCAAAAACAATGTGATGGACGTCAAGGAC
AGATCTTTCTGAAATCATGCCACTTTGGCCCCAAGAACCCTACTGCCCCATCTTCCGACTGGGCTCCATCGTC
CGCTGGGCCGGGAGCGACTTCCAGGATATAGCCCTGCGAGGTGGCGTGATAGGAATTAATATTGAATGGAAGTGT
GATCTTGATAAAGCTGCCTCTGAGTGCCACCCTCACTATTCTTTTAGCCGTCTGGACAATAAACTTTCAAAGTCT
GTCTCCTCCGGGTACAATTTCAGATTTGCCAGATATTACCGAGACGCGAGCCGGGGTGGAGTTCCGCACCCTGATG
AAAGCCTACGGGATCCGCTTTGACGTGATGGTGAACGGCAAGGGTGCTTTCTTCTGCGACCTGGTACTCATCTAC
CTCATCAAAAAGAGAGAGTTTTACCGTGACAAGAAGTACGAGGAAGTGAGGGGCCTAGAAGACAGTTCCAGGAG
GCCGAGGACGAGGCATCGGGGCTGGGGCTATCTGAGCAGCTCACATCTGGGCCAGGGCTGCTGGGGATGCCGGAG
CAGCAGGAGCTGCAGGAGCCACCCGAGGCGAAGCGTGGAAGCAGCAGTCAGAAGGGGAACGGATCTGTGTGCCA
CAGCTCCTGGAGCCCCACAGGAGCACGTGAATTGCTCTGCTTACGTTTACGGCCCTGCTCTAAACCCAGCCGTCT
AGCACCCAGTGATCCCATGCTTTGGGAATCCAGGATGCTGCCCAACGGGAAATTTGTACATTGGGTGCTATCA
ATGCCACATCACAGGGACCAGCCATCACAGAGCAAAGTGACCTCCACGTCTGATGCTGGGGTCTATCAGGACGGAC
CCATCATGGCTGTCTTTTTGCCCCACCCCTGCCGTGAGTTCTTCTTTCTCCGTGGCTGGCTTCCCGCACTAGG
GAACGGGTTGTAAATGGGGAACATGACTTCCTTCCGGAGTCTTGAGCACCTCAGCTAAGGACCGCAGTGCCCTG
TAGAGTTCTAGATTACCTCACTGGGAATAGCATTGTGCGTGTCCGAAAAGGGCTCCATTTGGTTCCAGCCCAC
TCCCTCTGCAAGTGCCACAGCTTCCCTCAGAGCATACTCTCCAGTGGATCCAAGTACTCTCTCTCTAAAGACA
CCACCTTCTGCCAGCTGTTTGCCCTTAGGCCAGTACACAGAATTAAAGTGGGGGAGATGGCAGACGCTTTCTGG
GACCTGCCCAAGATATGTATTCTCTGACACTCTTATTTGGTCATAAAACAATAAATGGTGTCAATTTCAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 890

MGQAGCKGLCLSLFDYKTEKYVIAKNKKVGLLYRLLQASILAYLVVWVFLIKKGYQDVDTSLQSAVITKVKGVAF
TNTSDLGQRIWDVADYVIPAQGENVFFVVTNLIVTPNQRQNVCAENEGIPDGACSKDSDCHAGEAVTAGNGVKTG
RCLRRGNLARGTCEIFAWCPLETSSRPEEPFLKEAEDFTIFIKNHIRFPKFNF SKNNVMDVKDRSFLKSCHFGPK
NHYCP IFR LGSIVRWAGSDFQDIALRGGVIGINIEWNCDLKAASECHPHYSFSRLDNKLSKSVSSGYNFRFARY
YRDAAGVEFRTLKAYGIRFDVMVNGKGAFCDLVLIYLIKKREFYRDKKYEEVRGLEDSSQEADEASGLGLSE
QLTSGPGLGMPEQQELQEPPEAKRGSSSQKNGSVCPQLLEPHRST

965/2682
FIGURE 891

AATTGGAGGAGTTGTTGTTAGGCCGTCCCGGAGACCCGGTCGGGAGGGAGGAAGGTGGCAAGATGCTGTTGGAAA
GCACTATGGTGTGTGTGGACAACAGTGAGTATATGCGGAATGGAGACTTCTTACCCACCAGGCTGCAGGCCCAGC
AGGATGCTGTCAACATAGTTTGTTCATTCAAAGACCCGAGCAACCCTGAGAACAACGTGGGCCTTATCACACTGG
CTAATGACTGTGAAGTGCTGACCACACTCACCCAGACACTGGCCGTATCCTGTCCAAGCTACATACTGTCCAAC
CCAAGGGCAAGATCACCTTCTGCACGGGCATCCGCGTGGCCCATCTGGCTCTGAAGCACCGACAAGGCAAGAATC
ACAAGATGCGCATCATTGCCTTTGTGGGAAGCCCAGTGGAGGACAATGAGAAGGATCTGGTGAACTGGCTAAAC
GCCTCAAGAAGGAGAAAAGTAAATGTTGACATTATCAATTTTGGGGAAGAGGAGGTGAACACAGAAAAGCTGACAG
CCTTTGTAAACACGTTGAATGGCAAAGATGGAACCGTTCTCATCTGGTGACAGTGCCTCCTGGGCCCAGTTTGG
CTGATGCTCTCATCAGTTCTCCGATTTTGGCTGGTGAAGGTGGTGCCATGCTGGGTCTTGGTGCCAGTGACTTTG
AATTGGAGTAGATCCCAGTGTGATCCTGAGCTGGCCTTGGCCCTTCGTGTATCTATGGAAGAGCAGCGGCAGC
GGCAGGAGGAGGAGGCCCGGGCGGCAGCTGCAGCTTCTGCTGCTGAGGCCGGGATTGCTACGACTGGGACTGAAG
ACTCAGACGATGCCCTGCTGAAGATGACCATCAGCCAGCAAGAGTTTGGCCGCACTGGGCTTCCTGACCTAAGCA
GTATGACTGAGGAAGAGCAGATTGCTTATGCCATGCAGATGTCCCTGCAGGGAGCAGAGTTTGGCCAGGCGGAAT
CAGCAGACATTGATGCCAGCTCAGCTATGGACACATCTGAGCCAGCCAAGGAGGAGGATGATTACGACGTGATGC
AGGACCCCGAGTTTCCTTCAGAGTGTCCCTAGAGAACCTCCCAGGTGTGGATCCCAACAATGAAGCCATTGAAATG
CTATGGGCTCCCTGGCCTCCCAGGCCACCAAGGACGGCAAGAAGGACAAGAAGGAGGAAGACAAGAAGTGAGACT
GGAGGGAAAGGTAGCTGAGTCTGCTTAGGGGACTGCATGGGAAGCACGGAATATAGGGTTAGATGTGTGTATC
TGTAACCATTACAGCCTAAATAAAGCTTGGCAACTTTT

966/2682
FIGURE 892

MVLESTMVCVDNSEYMRNGDFLPTRLQAQQDAVNIVCHSKTRSNPENNVLITLANDCEVLTTLTPTDTGRILSKL
HTVQPKGKITFCTGIRVAHLALKHRQGKNHKMRIIAFVGSPVEDNEKDLVKLAKRLKKEKVNVDIINFGEEEVNT
EKLTAFVNTLNGKDG TGSHLVTVP GP SLADALISSPILAGEGGAMLGLGASDFEFGVDP SADPELALALRVSM
EQRQRQEEEEARRAAAAAEEAGIATTGTEDSDDALLKMTISQQEFGRITGLPDLSSMTEEEQIAYAMQMSLQAEF
GQAESADIDASSAMDTSEPAKEEDDYDVMQDPEFLQSVLENLPGVDPNNEAIRNAMGSLASQATKDGKKDKKEED
KK

967/2682
FIGURE 893

AAGAGCTCCAGAGAGAAGTCGAGGAAGAGAGAGACGGGGTCAGAGAGAGCGCGGGGCGTGCGAGCAGCGAAAGC
GACAGGGGGCAAAGTGAGTGACCTGCTTTTGGGGGTGACCGCCGGAGCGCGGCGTGAGCCCTCCCCCTTGGGATCC
CGCAGCTGACCAGTCGCGCTGACGGACAGACAGACAGACACCGCCCCAGCCCCAGTTACACCTCCTCCCCGGC
CGGCGGGGACAGTGGACGCGGGCGGAGCGCGGGCAGGGGCCGGAGCCCGCCCCGGAGGCGGGGTGGAGGGG
GTCGGAGCTCGCGGGCTCGCACTGAACTTTTCGTCCAATTCTGGGCTGTTCTCGCTTCGGAGGAGCCGTGGTC
CGCGCGGGGAAGCCGAGCCGAGCGGAGCCGCGAGAAGTGCTAGCTCGGGCCGGAGGAGCCGAGCCGGAGGAG
GGGGAGGAGGAAGAAGAGAAGGAAGAGGAGAGGGGGCCGAGTGGCGACTCGGCGCTCGGAAGCCGGGCTCATGG
ACGGGTGAGGCGGGGTGTGCGCAGACAGTGCTCCAGCGCGCGCTCCCCAGCCCTGGCCCGGCTCGGGCCGG
GAGGAAGAGTAGCTCGCCGAGGCGCCGAGGAGAGCGGGCCGCCACAGCCCGAGCCGGAGAGGGACGCGAGCCG
CGCGCCCCGGTCGGGCTCCGAAACCATGAACCTTTCTGCTGTCTTGGGTGCATTGGAGCCTTGCTTGTCTCT
ACCTCCACCATGCCAAGTGGTCCAGGCTGCACCCATGGCAGAAGGAGGAGGGCAGAATCATCACGAAGTGGTGA
AGTTTCATGGATGTCTATCAGCGCAGCTACTGCCATCCAATCGAGACCCTGGTGGACATCTCCAGGAGTACCCTG
ATGAGATCGAGTACATCTTCAAGCCATCCTGTGTGCCCTGATGCGATGCGGGGGCTGCTCCAATGACGAGGGCC
TGGAGTGTGTGCCACTGAGGAGTCCAACATCACCATGCAGATTATGCGGATCAAACCTACCAAGGCCAGCACA
TAGGAGAGATGAGCTTCTACAGCACAAATGTGAATGCAGACCAAAGAAAGATAGAGCAAGACAAGAAAATC
CCTGTGGGCTTGTCTCAGAGCGGAGAAAGCATTGTGTTGTACAAGATCCGAGACGTGTAAATGTTCTGCAAAA
ACACACACTCGCGTTGCAAGGCGAGGCGAGCTTGAGTTAAACGAACGTACTGCAGATGTGACAAGCCGAGGCGGT
GAGCCGGGCGAGGAGGAAGGAGCCTCCCTCAGGGTTTCGGGAACAGATCTCTCTCAGGAAAGACTGATACAGAA
CGATCGATACAGAAACCACGCTGCCGCCACCACACCATCACCATCGACAGAACAGTCCTTAATCCAGAAACCTGA
AATGAAGGAAGAGGAGACTCTGCGCAGAGCACTTTGGGTCCGGAGGGCGAGACTCCGGCGGAAGCATTCCCGGGC
GGGTGACCCAGCACGGTCCCTCTTGAATTGGATTGCCATTTTATTTTTCTTGCTGTAAATCACCGAGCCCGG
AAGATTAGAGAGTTTTATTTCTGGGATTCTGTAGACACACCCACCCACATACATACATTTATATATATATATAT
TATATATATATAAAATAAATATCTCTATTTTATATATATAAAATATATATATTCTTTTTTAAATTAACAGTGC
TAATGTTATTGGTGTCTTCACTGGATGTATTGACTGCTGTGGACTTGAGTTGGGAGGGGAATGTTCCCACTCAG
ATCCTGACAGGGAAGAGGAGGAGATGAGAGACTCTGGCATGATCTTTTTTTTGTCCCACTTGGTGGGGCCAGGGT
CCTCTCCCTGCCCAAGAATGTGAAGGCCAGGGCATGGGGCAAATATGACCCAGTTTTGGGAACACCGACAAA
CCCAGCCCTGGCGCTGAGCCTCTCTACCCAGGTGAGACGGACAGAAAGACAAATCACAGGTTCCGGGATGAGGA
CACCGGCTCTGACCAGGAGTTTGGGGAGCTTCAGGACATTGCTGTGCTTTGGGGATTCCCTCCACATGCTGCACG
CGCATCTCGCCCCAGGGGCACTGCCTGGAAGATTGAGGAGCCTGGGCGGCCTTCGCTTACTCTCACCTGCTTCT
GAGTTGCCAGGAGGCCACTGGCAGATGTCCCGGCGAAGAGAAGAGACACATTGTTGGAAGAAGCAGCCCATGAC
AGCGCCCCCTTCTGGGACTCGCCCTCATCTCTTCTGCTCCCTTCTGGGGTGACGCTAAAAGGACCTATGT
CCTCACACCATTTGAAACCACTAGTTCTGTCCCCCAGGAAACCTGGTTGTGTGTGTGTGAGTGGTTGACCTTCT
CCATCCCCTGGTCTTCCCTTCCCTTCCCGAGGCACAGAGAGACAGGGCAGGATCCACGTGCCCATTTGTGGAGGC
AGAGAAAAGAGAAAAGTGTATATACGGTACTTATTTAATATCCCTTTTTAATTAGAAATTAGAACAGTTAATT
TAATTAAAGAGTAGGGTTTTTTTTTTCAGTATTCTTGGTTAATATTTAATTTCACTATTTATGAGATGTATCTTT
GCTCTCTCTTGTCTCTTATTTGTACCGGTTTTTGTATATAAAATTCATGTTTCCAATCTCTCTCTCCCTGATCG
GTGACAGTCACTAGCTTATCTTGAACAGATATTTAATTTTGCTAACACTCAGCTCTGCCCTCCCCGATCCCTGG
CTCCCCAGCACACATTCTTTGAAAGAGGGTTTCAATATACATCTACATACTATATATATATTGGGCAACTTGTA
TTTGTGTGTATATATATATATATATGTTTATGTATATATGTGATCCTGAAAAATAAACATCGCTATTCTGTTTT
TTATATGTTCAACCAACAAGAAAAAATAGAGAATTCTACATACTAAATCTCTCTCTTTTTTAATTTTAAATAT
TTGTTATCATTTATTTATTGGTGCTACTGTTTATCCGTAATAATGTGGGGAAGATATTACATCACGTCTTT
GTCTCTAGTGCAGTTTTTCGAGATATTCCGTAGTACATATTTATTTTAAACAACGACAAAGAAATACAGATATA
TCTTAAAAA

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FIGURE 894

MNFI LSWVHWSLALLLYLHHAKWSQAAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKP
SCVPLMRCGGCSNDEGLECVPTESNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQENPCGPCSERR
KHLFVQDPQTCKCSCKNTHSRCKARQLELNERTCRCDKPRR

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FIGURE 895

GTCTACACCAGCGGTGTCGCTGCCCCGAAAGTGAGAGAAGGCTGATATTGCTAGCTGGAATCCAGGCCTGGGTGCT
GCATGGTGGCGCCCCCTCCCCGTGACCACCGCTGCGTTTTCTCGGGCTTTCTCTGAGGAGCTGCTCTTGTGCTGTT
TGGCCCCCTGCCTACTCGGAATGGAACAAAGCATCGAACAACAAGTGAATCCTGTTGTGCCTATCACCTGTTGA
AGTTGCCAGTCTTAAGGAAGGAATCAATTTCTTTTCGCAATAAGAGCACTGGCAAAGACTACGTCTTGTACAAGAA
TAAGAGCCGACTGAGGGCATGCAAGAATATGTGCAAGCACCAAGGAGGCCTGTTTATAAAGATATCGAGGATTT
AGCCGGAAGTTGTTGAAATGGATGAAAACAACGGACTTTTGCTTTTAGAACTGAATCCTCCTAACCTTGGGACT
TACAGCCAGATCTCCTGAAGAGTTGGCTTTTGGAGAAGTACAGATAACATATCTCACTCATGCCTGCATGGACC
TCAAGTTAGGAGACAAGAGAATGGTGTGTTGACCTTGGTTAATCGGTCTGCTTTTGCCCGTGGATGGTGGTTGC
TCCATGAGCCTCCATCTGATTGGCTGGAGAGGCTGTGCCAGGCAGACCTCATTTACATCAGTCATCTGCACTCAG
ACCACCTGAGTTACCCACACTGAAAAAGCTTGCTGGGAGAAGACCAGATATTCCCATTATGTTGGAACACAG
AAAGGCCCTGATTTTTGGAATCTGAATCAGAGCGGTGTCCAGTTGACTAATATCAATGTCGTGCCATTTGGAATAT
GGCAGCAGGTGGACAAAAATCTTCGATTTCATGATCTTGATGGACGGTGTTCATCCTGAGATGGACACTTGCATTA
TTGTGGAGTACAAAGGTCATAAAATACTCAATATAGTAGACTGCACCAGACCCAATGGGGGAAGGCTGCCTATGA
AGGTTGCTCTAATGATGAGTGATTTTGTGCTGGAGGAGCATCAGGCTTTCCAATGACTTTTCAAGTGGTGGAAATTTA
CGGAGGAATGGAAAGCCCAATTCATTAAAAACAGAAAGGAAGCTCCTGAACTACAAGGCTCGGCTGGTGAAGA
ACCTGCAACCCCGAATTTATTGTCCCTTTGCTGGGTATTTTGTGGAATCTCACCCATCAGACAAGTACATCAAGG
AAACAACACCCAAAAATGACCCAAATGAATCAACAATCTTATCAAGAAAACTCTGATGTGATAACATGGACCC
CTCGACCGGGAGCCACCCTTGATCTGGGAAGAATGCTGAAGGATCGAACAGACAGCAAGGGCATCATAGAGCCTC
CAGAGGGGACAAAAATTTACAAGGATTCCTGGGATTTTGAACCTTATTGGAATCTTGAATGCTGCTCTAGGAG
ATGAAATATTTCTTCACTCATCCTGGATAAAAGAATACTTCACTTGGGCTGGATTAAAGATTACAACCTTGTGG
TCAGGATGATTGAGACAGATGAGGACTTCAATCCTTTTCTGGAGGATATGACTATTTGGTTGACTTTTTAGATT
TATCCTTCCCAAAAGAAAGACCACAACGAGAACATCCCTATGAGGAAATCCATAGCCGGGTGGATGTCATCAGAC
ACGTGGTGAAGAATGGTCTACTCTGGGATGAGTTGTATATAGGATTCCAACACGGCTCCAGCGGGATCCTGACA
TATACCATCACCTGTTTTGGAATCATTTTCAAATAAACTCCCCCTCACACCACCAACTGGAAGTCATTCTCTGA
TGTGCTGTGAGCAGAATGGGCCTGCGATTTTGAAGAATGCAAAACCACATGAAAATTTCAAGAATTCAGTGATC
TGATGCAAAATAAAAAATTTATCATTACATCTTGAACCCAGGAAGCTTACAGCAAAGAGACTATGCTTTATGACGT
CAGCAATAGATAATTCCACGTTGCCTTTGTGATTGTATATATAGCTTACATTTGTGGATCACTACATAGCCAGA
TTCAAAAATATTTTACTTGTTCATCCACAGTTCTCTACAGAAAGAACCAATGAACCCAATAGGAACAAATTCCTC
TGTGGAACAAAGCATAGCTGTAGTAGATACGAATCCAATCACAGAGGAAACAGGAAGAGAAAAACATCCAAGA
CTACAGTGAAAACCTGGAATGGTCTGTTTTCGTGATATTCGTATGATTAAAGATGCAAAATTTTTCTTAGGAAAT
GTGATTGTTAACTAGCATTCTGTTTACATGTTGACATTTCTAACACACACACCACTGATTTGAACTTCAAAAT
TATTTCTGATTATATATGCTAGGTCTGATTCTGAAGATACAAGAATTCATGGTGGAAATTTGCTCCTGAAAT
TCTAGATTCAATAATTAGAAGTGTATTATTACCAACTTCTCACTTAGATTAAACATCAGTGATGTTTGATTATTCTGG
TTAACCGCTCACATGCATAACAATAATGCTAGAAATTCAGGAATTATAATTTTGTGATTATACGTGTGGTAA
TTATTCACTTCTCACTGCAAAATAAATAATGTATATCAATGTAATGTAGGTGAGAAATGTCTATGGTGAGCAAT
AAAAGATTATTTTAAATATGAAAAAATAAAAAA

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FIGURE 896

MDENNGLLLLLELNPPNPWDLQPRSPEELAFGEVQITYLTHACMDLKLGDKRMVFDPWLIGPAFARGWLLHEPPS
DWLERLCQADLIYISHLSDHLSYPTLKKLAGRRPDIPYVGNTERPVFWNLNQSGVQLTNINVVVPGIWWQQVVK
NLRFMILMDGVHPEMDTCIIVEYKGHKILNIVDCTRPNNGGRLPMKVALMMSDFAGGASGFPMTFSGGKFTEEWKA
QFIKTERKKLLNYKARLVKNLQPRIYCPFAGYFVESHPSDKYIKETNTKNDPNELNNLIKNSDVITWTPRPGAT
LDLGRMLKDRTDSKGIIEPPEGTKIYKDSWDFEPYLEILNAALGDEIFLHSSWIKEYFTWAGFKDYNLVVRMIET
DEDFNPFFGGYDYLVDLFLDLSFPKERPQREHPYEEIHSRVDVIRHVVKNGLLWDELYIGFQTRLQORDPDIYHHLF
WNHFQIKLELTPPNWKSFLMCCEQNGPAILQECKTT

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FIGURE 897

GCAGCGCCGCGACTCGTGCGGGTAGGCGTCTGCGCTCGGTTTGAGGGCTCGGCGGGGGTTTCTGTTCCTCCTT
CTGCGCGGCTGCAGCTCGGGACTTCGGCCTGACCCAGCCCCATGGCTTCAGAAGAGCTACAGAAAGATCTAGAA
GAGGTAAAGGTGTTGCTGGAAAAGGCTACTAGGAAAAGAGTACGTGATGCCCTTACAGCTGAAAAATCCAAGATT
GAGACAGAAATCAAGAACAAGATGCAACAGAAATCACAGAAGAAAGCAGAAGCTTCTTGATAATGAAAAACCAGCT
GCTGTGGTTGCTCCCATTAACAACGGGCTATACGGTGAAAATCAGTAATTATGGATGGGATCAGTCAGATAAGTTT
GTGAAAATCTACATTACCTTAACTGGAGTTCATCAAGTTCCTACTGAGAATGTGCAGGTGCATTTACAGAGAGG
TCATTTGATCTTTTGGTAAAGAATCTAAATGGGAAGAGTTACTCCATGATTGTGAACAATCTCTTGAAACCCATC
TCTGTGGAAGGCAGTTCAAAAAAGTCAAGACTGATACAGTTCTTATATTGTGTAGAAAGAAAGTGGAACACACA
AGGTGGGATTACCTGACCCAGGTTGAAAAGGAGTGCAAGAAAAAGAGAAGCCCTCCTATGACACTGAAACAGAT
CCTAGTGAGGGATTGATGAATGTTCTAAAGAAAATTTATGAAGATGGAGACGATGATATGAAGCGAACCATTAAT
AAAGCCTGGGTGGAATCAAGAGAGAAGCAAGCCAAAGGAGACACGGAATTTGAGACTTTAAAGTCGTTTTGGGA
ACTGTGATGTGATGTGGAATACTGATGTTTCCAGTAAGGGAATATTGGTGAGCTGCATATATAAATTTGACAGA
TAGCTATTACATAGCCTTCTAAGTAAAGGCAATGAATTCCTACTGGAGGATTATTTAAATAAAAT
ATGCTTATTAAACACTCCTGCAAAGATGGTTTTATTAGTACCCTGGTCATTTGTTCAAGGAAGGGTTATATTGC
ATTCTCACGTGAAATATAAAAAGCAAGTCTTGCCCAATAAAACGCTACATTGTGTGATTTTTTGTTCAGCTAA
GAATTGGAAGTATTTGCTTGCCTTTTAAGTTACTGACATCAGCTTCCACCAGTGTAATAATGAGTAAACCT
GAAGTTTTGCATAAAATGCAATCGGTGCCGTGTGCTTGAAGGTTGCTGTAGAGCATCTGACCCCTTATTACCACC
TTAAGCAATGTATATGCCATGCATTACCATGCACTAATCAATCACAGGTGTTCTATCTAGATTTAAATATATT
TGTCAATGAATGTGGAATAGAAAATCTAAACATGACAATAATAGACATATCTTGTATGGTACCAGTTAGTTTTG
CCGTGGATCAGATGGTTTTATAAAAGTAATAACCATAAAGCAAAAAATAATTTGAAAGCCCGTCTATTCCATGCT
CAATAAGTTAAGTTTTTCTTCATTAGAACAGTTTTATGATTTATTTGTCTAGGAGTATGTCAGAAAAATCAGGC
TTTTAGTAGGAATTACTCCTATTCCCCCTGAAGTCAGGACCAGTGCCTGTGATCTCCATTACTTTATTTTCCTGG
AGGTATTAGCCAACACAGTTAGATCAGAGAAAGCAATTGAAGCCAGGCATGAAGGCTGGCGCCCGTAATCCCAGC
TACTAAGGCTGGAGGATCACTTCAGCCCAGGAGTTTAAGGCTGCAGTGAGCTATGATGATGCCACTGTACTGCAG
CTTGGGTAACAGATTGAGAACCTGTCTCATTAAAAAAGGCGGTTAGACACACAGGAAAAAT
CCAGAAGGGTAACTAACTAAAGCTACAATTAATATGGGAATTTGGAAGAAGTGGTAGGATTTAAAAATACAGAA
ACAGTTTATGTATAGGATAGCTATAAGTAAATACTGAAACACATTATGCCTCTGTAATTGGGGTTGACACATGAA
CAGAATAGCAGACACAATGCATATGAAAGTTACAGAATATGGTAAAAAGTGGGGTAAAGATGGGTTTTTAATGATA
CTAAGATAACTGAAAATAGGCATATAGATATATTCGAAGCCGCTGACGATCTAATTGTAAAAAGTAAAGCATAAC
AAATACTAGAAGAAAATGGAGGAAAACGACATTATATGTGACTTAAACCTAGAAGAAAATAAATAAACTATTGA
TCAATTTTAACTACATAAAAAATGTTTATAGGACAAGAAAAACCCACCATAACCCAAGGCAAACAATGTATTGAC
AGGATTCCAATAATTAAGAATACTTCATACAAAAAGAAATGTAAATGACCTTTAACATGTAAAGATGCTCACCTT
GTTCAGAAGAGAATAAACCAGTGTTTTTACCTTTT

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FIGURE 898

MASEELQKDLEEVKVLLEKATRKRVRDALTAEKSKIETEIKNKMQQKSQKKAELLDNEKPAAVVAPITTGYTVKI
SNYGWDQSDKFVKIYITLTGVHQVPTENVQVHFTERSFDLLVKNLNGKSYSMIVNNLLKPISVEGSSKKVKTDTV
LILCRKKVENTRWDYLTQVEKECKEKEKPSYDTETDPSEGLMNVLKKIYEDGDDDMKRTINKAWVESREKQAKGD
TEF

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FIGURE 899

TCCAATCGACAAGAAGCTGGAAAAGAAATGAATGTTGTCCTTAAACAACCTACAGAATATCATCTATAACCCGGTAA
TCCCGTTTGTGGCACCATTCCCTGATCAGCTGGATCCTGGAACCTTTGATTGTGATACGTGGGCATGTTCCTAGTG
ACGACAGACAGATTCCAGGTGGATCTGCAGAATGGCAGCAGCATGAAACCTCGAGCCGATGTGGCCTTTCATTCA
ATCCTCGTTTCAAAAAGGGCCGGCTGCATTGTTTGCAATACTTTGATAAATGAAAAATGGGGACGGGAAGAGATCA
CCTATGACACGCCTTTCAAAAGAGAAAAGTCTTTTGAGATCGTGATTATGGTGCTGAAGGACAAATCCAGGTGG
CTGTAAATGGAAAACATACTCTGCTCTATGGCCACAGGATCGGCCCAGAGAAAATAGACACTCTGGGCATTTATG
GCAAAGTGAATATTCCTCAATTGGTTTTAGCTTCAGCTCGGACTTACAAAGTACCCAAGCATCTAGTCTGGAAC
TGACAGAGATAAGTAGAGAAAATGTTCCAAAGTCTGGCACGCCCCAGCTTCCTAGTAATAGAGGAGGAGACATTT
CTAAAAATCGCACCCAGAACTGTCTACACCAAGAGCAAAGATTGCACTGTCAATCACACTTTGACTTGCACCAAAA
TACCACCTATGAATATGTGTCAAAGAGGCTGCCATTGCTGCAAGGTTGAACACCCCCATGGGCCCTGGACGAA
CTGTCGTCGTTAAAGGAGAAGTGAATGCAAATGCCAAAAGCTTTAATGTTGACCTACTAGCAGGAAAATCAAAGG
ATATTGCTCTACACTTGAACCCACGCCTGAATATTAAAGCATTGTGAAGAAATCTTTTCTCAGGAGTCTTGGG
GAGAAGAAGAGAGAAATATTACCTCTCTCCCATTTAGTCTGGGATGTACTTTGAGATGATAATTTATTGTGATG
TTAGAGAATTCAAGGTTGCAGTAAATGGCGTACACAGCCTGGAGTACAAACACAGATTTAAAGAGCTCAGCAGTA
TTGACACGCTGGAAATTAATGGAGACATCCACTTACTGGAAGTAAGGAGCTGGTAGCCTACCTACACAGCTGCTA
CAAAAACCAAAATACAGAATGGCTTCTGTGATACTGGCCTTGC

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FIGURE 900

MMLSLNNLQNIINYNPVIFVGTIPDQLDPGTLIVIRGHVPSDADRFQVDLQNGSSMKPRADVAFHFNPRFKRAGC
IVCNTLINEKWGREIITYDTPFKREKSFEIVIMVLKDKFQVAVNGKHTLLYGHRIGPEKIDTLGIYGKVNIHSIG
FSFSSDLQSTQASSLELTEISRENVPKSGTPQLPSNRGGDISKIAPRTVYTKSKDSTVNHTLTCTKIPPMNYVSK
RLPFAARLNTPMGPGRTVVVKGEVNANAKSFNVDLLAGKSKDIALHLNPRLNKAFVRNSFLQESWGEEERNITS
LPFSFGMYFEMIIYCDVREFKVAVNGVHSLEYKHRFELSSIDTLEINGDIHLLEVRWS

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FIGURE 901

GTGCGGCCATTTTGCCGGGGTTTGAATGTGAGGCGGAGCGGCGGCAGGAGCGGATAGTGCCAGCTACGGTCCGCG
GCTGGGGTTCCCTCCCTCCGTTTCTGTATCCCCACGAGATCCTATAGCAATGGAACTCAGCGATGCAAATCTGCAA
ACACTAACAGAAATATTTAAAGAAAACTTGTATCCTGATCCTGCCATCCGACGTCCAGCTGAGAAATTTCTTGAA
TCTGTTGAAGGAAATCAGAATTATCCACTGTTGCTTTTGACATTACTGGAGAAGTCCCAGGATAATGTTATCAAA
GTATGTGCTTCAGTAACATTCAAAAACTATATTTAAAGGAACTGGAGAATTGTTGAAGATGAACCAAAACAAAT
TGTGAAGCCGATCGAGTGGCCATTAAAGCCAACATAGTGCATTGATGCTTAGCAGCCCAGAGCAAATTCAGAAG
CAGTTAAGTGATGCAATTAGCATTATTGGCAGAGAAGATTTTCCACAGAAATGGCCTGACTTGCTGACAGAAATG
GTGAATCGCTTTAGAGTGGAGATTTCCATGTTATTAATGGAGTCTCCGTACAGCACATTCAATTATTTAAAGA
TACCGTCATGAATTTAAGTCAAACGAGTTATGGACTGAAATTAAGCTTGTTCTGGATGCCTTTGCTTTGCCTTTG
ACTAATCTTTTTAAGGCCACTATTGAACTCTGCAGTACCCATGCAAATGATGCCTCTGCCCTGAGGATTCTGTTT
TCTTCCCTGATCCTGATCTCAAAATGTTCTATAGTTTAACTTTTCCAGGATCTCCCTGAATTTTGGGAAGGTAAT
ATGGAACCTTGGATGAATAATTTCCATACTCTCTTAACATTGGATAATAAGCTTTTACAACTGATGATGAAGAG
GAAGCCGGCTTATTGGAGCTCTTAAATCCAGATTTGTGATAATGCCGCACTCTATGCACAAAAGTACGATGAA
GAATTCAGCGATACCTGCCTCGTTTGTACAGCCATCTGGAATTTACTAGTTACAACGGGTCAAGAGGTTAA
TATGATTTGTTGGTAAGTAATGCAATTTCTGGCTTCAGTTTGTGAGAGACCTCATTATAAGAACTATTTT
GAGGACCAGAACACGCTGACAAGTATCTGTGAAAAGGTTATTGTGCCTAACATGGAATTTAGAGCTGCTGATGAA
GAAGCATTGGAATAATTCTGAGGAGTACATAAGGAGAGATTTGGAAGGATCTGATATTGATACTAGACGCAGG
GCTGCTGTGATCTGGTACGAGGATTATGCAAGTTTTTTGAGGGACCTGTGACAGGAATCTTCTCTGTTATGTT
AATCCATGCTGCAGGAATACGCAAAAAATCCATCTGTCAACTGGAAACACAAAGATGCAGCCATCTACCTAGTG
ACATCTTTGGCATCAAAAGCCCAACACAGAAGCATGGAATTACACAAGCAAATGAACTTGTAACCTAACTGAG
TTCTTTGTGAATCACATCCTCCCTGATTTAAATCAGCTAATGTGAATGAATTTCTGTCTTAAAGCTGACGGT
ATCAATATATATTGATTTTTAGAAATCAAGTGCCAAAAGAACATCTTTAGTCTCGATTCTCTCTTGATTAAT
CATCTTCAAGCTGGAAGTATTGTTGTTTACTTACGAGCTCATGCTCTTGAACGGCTCTTTACTATGCGAGGG
CCTAACATGCCACTCTCTTACAGCTGCAGAAATCGCACCGTTTGTGAGATTCTGCTAACAAACCTTTTCAAA
GCTCTCACACTTCTGGCTCTTCAGAAATGAATATATTATGAAAGCTATCATGAGAAGTTTTCTCTCTTACAA
GAAGCCATAATCCCCTACATCCCCTACTCTCATCACTCAGCTTACACAGAAGCTATTAGCTGTTAGTAAGAACCCA
AGCAAACCTCACTTTAATCACTACATGTTTGAAGCAATATGTTTATCCATAAGAATAACTTGCAAAGCTAACCTT
GCTGCTGTGTAAATTTTGAGGAGGCTTTGTTTTTGGTGTTTACTGAAATCTTACAAAATGATGTGCAAGATTT
ATTCCATACGTCTTTCAAGTGATGTCTTTGCTTCTGGAAACACACAAAAATGACATCCCGTCTTCTATATGGCC
TTATTTCTCATCTCTTCAGCCAGTGCTTTGGGAAAGAACAGGAATATTCTGCTCTAGTGAGGCTTCTTCAA
GCATTCTTAGAACGCGGTTCAAACACAATAGCAAGTGCTGCAGCTGACAAAATTCCTGGGTTACTAGGTGCTTT
CAGAAGCTGATTGCATCCAAAGCAAATGACCACCAAGGTTTTATCTTCTAAACAGTATAATAGAGCACATGCCCT
CCTGAATCAGTTGACCAATATAGGAAACAAATCTTCACTCTGCTATTCCAGAGACTTCAGAATTCAAAACAACC
AAGTTTATCAAGAGTTTTTTAGTCTTTATTAATTTGATTGCATAAAATATGGGGCACTAGCACTACAAGAAATA
TTTGATGGTATACAACCAAAATGTTTGGAAATGGTTTTGGAAAAAATTATTATTCCTGAAATTCAGAAGGTATCT
GGAAATGTAGAGAAAAAGATCTGTGCGGTTGGCATAACCAACTTACTAACAGAATGTCCCCCAATGATGGACACT
GAGTATACCAAACCTGTGGACTCCATTATTACAGTCTTTGATTGGTCTTTTTGAGTTACCCGAAGATGATACCATT
CCTGATGAGGAACATTTTATTGACATAGAAGATACACCAGGATATCAGACTGCCTTCTCACAGTTGGCATTGCT
GGGAAAAAAGAGCATGATCCTGTAGGTCAAATGGTGAATAACCCCAAAATTCACCTGGCACAGTCACTTCACATG
TTGTCTACCCCTGTCCAGGAAGGGTTCCATCAATGGTGAGCACCAGCCTGAATGCAGAAGCGCTCCAGTATCTC
CAAGGGTACCTTCAGGCAGCCAGTGTGACACTGCTTTAACTGCATTTTTCTAATGGGCTAAACCCAGATGGTTT
CCTAGGAAATCACAGGCTTCTGAGCACAGCTGCATTAACAAAGGAAGTTTTCTTTTGAACCTGTGCACGA

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FIGURE 902

MELSDANLQTLTEYLKKTLDPDPAIRPAEKFLESVEGNQNYPLLLLTLEKSQDNVIKVCASVTFKNIYKRNWR
IVEDEPNKICEADRVAIKANIVHMLSSPEQIQKQLSDAISIIGREDFPQKWPDLITEMVNRFAQSGDFHVGVL
RTAHSLEFKRYRHEFKSNELWTEIKLVDAFALPLTNLFKATIELCSTHANDASALRILFSSLILISKLFYSLNFQ
DLPEFWEGNMETWMNNFHTLLTLDNKLLQTDDEEEAGLLELLKSQICDNAALYAQKYDEEFQRYLPRFVTAIWNL
LVTTGQEVKYDLLVSNAIQFLASVCERPHYKNLFEDQNTLTSICEKVIVPNMEFRAADEEAFEDNSEEYIRRDL
GSDIDTRRRRAACDLVRGLCKFFEGPVTGIFSGYVNSMLQEYAKNPSVNWKHKDAAIYLVTSLASKAQTQKHGITO
ANELVNLTEFFVNHILEDLKSANVNEFPVLKADGIKYIMIFRNQVPKEHLLVSIPLLINHLQAGSIVVHTYAHA
LERLFTMRGPNNATLETAAEIAPFVEILLTNLFKALTLPGSSENEYIMKAIMRSFSLQEAIPYIPTLITQLTQ
KLLAVSKNPSKPHFNHYMFEAICLSIRITCKANPAAVVNFEALFLVFTEILQNDVQEFIPYVFQVMSLLETHK
NDIPSSYMALEFPVLLQPVWERTGNIPALVRLQAFLEGRSNTIASAAADKIPGLLGVFQKLIASKANDHQGFYL
LNSIIEHMPPEVDQYRKQIFILLFQRLQNSKTTKFIKSFLVFINLYCIKYGALALQEIFDGIQPKMFGMVLEKI
IIPETQKVSNGVEKKICAVGITNLLTECPPMMDTEYTKLWTPLLQSLIGLFELPEDDTIPDEEHFIDIEDTPGYQ
TAFSQAFAAGKKEHDPVGMVNNPKIHQAQSLHMLSTACPRVPSMVSTSLNAEALQYLQGYLQAASVTLL

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FIGURE 903

GGCACGAGGAGACAAAGCAGCGCCCGTCTGCTTCGGGCTCTGGAATTTAGCGCTCGCCAGCTAGCCGAGAAA
TGACTGCTGTCCATGCAGGCAACATAAACTTCAAGTGGGATCCTAAAAGTCTAGAGATCAGGACTCTGGCAGTTG
AGAGACTGTTGGAGCCTCTTGTACACAGGTTACAACCCCTGTAAACACCAATAGTAAAGGGCCCTCTAATAAGA
AGAGAGGTCGTCTAAGAAGGCCCATGTTTTGGCTGCATCTGTTGAACAAGCAACTGAGAATTTCTGGAGAAGG
GGGATAAAATTGCGAAGGAGAGCCAGTTTCTCAAGGAGGAGCTTGTGGCTGCTGTAGAAGATGTTGAAAACAAG
GTGATTTGATGAAGGCTGCTGCAGGAGAGTTGCGAGATGATCCCTGCTCTTCTGTGAAGCGAGGCAACATGGTTC
GGGCAGCTCGAGCTTTGCTCTCTGCTGTTACCCGGTTGCTGATTTTGGCTGACATGGCAGATGTCTACAAATTAC
TTGTTTCAGCTGAAAGTTGTGGAAGATGGTATCTTGAAGTTGAGGAATGCTGGCAATGAACAAGACTTAGGAATCC
AGTATAAAGCCCTAAAACCTGAAGTGGATAAGCTGAACATTATGGCAGCCAAAAGACAACAGGAATTGAAAGATG
TTGGCCATCGTGATCAGATGGCTGCAGCTAGAGGAATCCTGCAGAAGAACGTTCCGATCCTCTATACTGCATCCC
AGGCATGCCTACAGCACCCCTGATGTCGCAGCCTATAAGGCCAACAGGGACCTGATATACAAGCAGCTGCAGCAGG
CGGTACAGGCATTTCGAATGCAGCCCAGGCCACTGCCTCAGACGATGCCTCACAGCACCAGGGTGGAGGAGGAG
GAGAACTGGCATATGCACTCAATAACTTTGACAAACAAATCATTGTGGACCCCTTGAGCTTCAGCGAGGAGCGCT
TTAGGCCTTCCCTGGAGGAGCGTCTGGAAAGCATCATTAGTGGGGCTGCCTTGATGGCCGACTCGTCTGCACGC
GTGATGACCGTCTGTGAGCGAATTGTGGCAGAGTGAATGCTGTCCGCCAGGCCCTGCAGGACCTGCTTTCGGAGT
ACATGGGCAATGCTGGACGTAAAGAAAGAGTGATGCACTCAATTCTGCAATAGATAAAATGACCAAGAAGACCA
GGGACTTGGCTAGACAGCTCCGCAAAGCTGTATGGACCACGTTTCAGATTCTTTCCTGGAACCAATGTTCCAC
TTTTGTTATTGATTGAAGCTGCAAAGATGGAATGAGAAAGAAGTTAAGGAGTATGCCAAGTTTTCCGTGAAC
ATGCCAACAAATTGATTGAGGTTGCCAACTTGGCCTGTCCATCTCAAATAATGAAGAAGGTGTAAGCTTGTTC
GAATGTCTGCAAGCCAGTTAGAAGCCCTCTGTCTCAGGTTATTAATGCTGCACTGGCTTAGCAGCAAAACCAC
AGAGTAACTGGCCCAAGAGAACATGGATCTTTTTAAAGAACAATGGGAAAACAAGTCCGTGTTCTCACAGATG
CTGTGATGACATTACTTCCATTGATGACTTCTTGGCTGTCTCAGAGAATCACATTTTGAAGATGTGAACAAAT
GTGTATTGCTCTCCAAGAGAAGGATGTGGATGGCCTGGACCGCACAGCTGGTGCAATTCGAGGCCGGGCAGCCC
GGGTCACTTACGTAGTCACCTCAGAGATGGACAACATATAGCCAGGAGTCTACACAGAGAAGGTTCTGGAAGCCA
CTAAGCTGCTCTCCAACACAGTCATGCCACGTTTTACTGAGCAAGTAGAAGCAGCCGTGGAAGCCCTCAGCTCGG
ACCCTGCCAGCCCATGGATGAGAATGAGTTTATCGATGCTTCCCGCCTGGTATATGATGGCATCCGGGACATCA
GGAAAGCAGTGCTGATGATAAGGACCCCTGAGGAGTTGGATGACTCTGACTTTGAGACAGAAGATTTTGATGTCA
GAAGCAGGACGAGCGTCCAGACAGAAGACGATCAGCTGATAGCTGGCCAGAGTGCCCGGGCGATCATGGCTCAGC
TTCCCCAGGAGCAAAAAGCGAAGATTGCGGAACAGGTGGCCAGCTTCCAGGAAGAAAAGAGCAAGCTGGATGCTG
AAGTGTCCAAATGGGACGACAGTGGCAATGACATCATTGTGCTGGCCAAGCAGATGTGCATGATTATGATGGAGA
TGACAGACTTTACCCGAGGTAAAGGACCACTCAAAAATACATCGGATGTCTCAGTGCTGCCAAGAAAATTGCTG
AGGCAGGATCCAGGATGGACAAGCTTGGCCGCACCATTTGCAGACCATTTGCCCCGACTCGGCTTGAAGCAGGACC
TGCTGGCCTACCTGCAACGCATCGCCCTCTACTGCCACCAGCTGAACATCTGCAGCAAGGTCAAGGCCGAGGTGC
AGAATCTCGGCGGGGAGCTTGTGTCTCTGGGGTGGACAGCGCCATGTCCCTGATCCAGGCAGCCAAGAACTTGA
TGAATGCTGTGGTGACAGAGTGAAGGCATCCTACGTGCGCTCTACCAAATACCAAAGTCAAGGGTATGGCTT
CCCTCAACCTTCTGTGTGTATGGAAGATGAAGGCACCAGAGAAAAAGCCATTGGTGAAGAGAGAGAAACAGG
ATGAGACACAGACCAAGATTAAACGGGCATCTCAGAAGAAGCAGTGAACCCGGTGCAGGCCCTCAGCGAGTTCA
AAGCTATGGACAGCATCTAAGTCTGCCCAGGCCGGCCGCCCCACCCCTCGGGGCTCCTGAATATCAGTCACTGT
TCGTCACTCAAATGAATTTGCTAAATACAACACTGATACTAGATTCCACAGGGAAATGGGCAGACTGAACAGTC
CAGGTGGTGAATTTTCCAAGAACATAGTTTAAAGTTGATTAAAAATGCTTTTAGAATGCAGGAGCCTACTTCTAGC
TGTATTTTTTGTATGCTTAAATAAAAAATAAAATTCATAACCAAAGAGAATCCACATTAGCTTGTAGTAATGC
TCTGACCAAGCCGAGATGCCATTCTCTAGTGATGGCGGCGTTAGGGTTTGAGAGAAGGGAATTTGGCTCAACT
TCAGTTGAGAGGGTGCAGTCCAGACAGCTTGACTGCTTTTAAATGACCAAAGATGACCTGTGGTAAGCAACCTGG
GCATCTTAGGAAGCAGTCCCTGGAGAAGGCATGTTCCAGAAAGGTCTCTGGAGGGACAACTCACTCAGTAAAA
CATAATGTATCATGAAGAAAAGTATTCTCTATGACATGAAATGAAAATTTTAAATGCATTGTTATAATTACTAAT
GTACGCTGCTGCAGGACATTAATAAAGTTGCTTTTTTAGGCTAAAAAAGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 904

MTAVHAGNINFKWDPKSLEIRTLAVERLLEPLVTQVTTLVNTNSKGPSNKKRGRSKKAHVLAASVEQATENFLEK
GDKIAKESQFLKEELVAAVEDVRKQGDLMKAAAGEFADDPCCSVKRGNMVRAARALLSAVTRLLILADMADVYKL
LVQLKVVEDGILKLRNAGNEQDLGIQYKALKPEVDKLNIMAARQOELKDVGHQDQMAAARGILOKNVPILYTAS
QACLQHPDVAAYKANRDLIYKQLQQAQVTGISNAAQATASDDASQHQGGGGGELAYALNNFDKQIIVDPLSFSEER
FRPSLEERLESIISGAALMADSSCTRDDRRERIVAECNAVRQALQDLLSEYMGNAGRKERSDALNSAIDKMTKKT
RDLRRQLRKAVMDHVSDFSLETNPVLLVIEAAKNGNEKEVKEYAQVFREHANKLIEVANLACSI SNNEEGVKLV
RMSASQLEALCPQVINAALALAAKPSKLAQENMDLFKEQWEKQVRVLTDAVDDITSIDDFLAVSENHILEDVNK
CVIALQEKDQDGLDRTAGAIRGRAARVIHVVTSEMDNYEPGVYTEKVLEATKLLSNTVMPRFTEQVEAAVEALSS
DPAQPMDENEFIDASRLVYDGIRDIRKAVLMIRTPEELDDSDFETEDFDVRSRTSVQTEDDQLIAGQSARAIMAQ
LPQEQKAKIAEQVASFQEEKSKLDAEVSKWDDSGNDIIVLAKQCMIMMEMTDFTRGKGPLKNTSDVISAACKIA
EAGSRMDKLGRTIADHCPDSACKQDLLAYLQRIALYCHQLNICSKVKAQVQNLGGELVVSGVDSAMSLIQAAKNL
MNAVVTQVKASYVASTKYQKSQGMASLNLPAVSWKMKAPKKPLVKREKQDETQTKIKRASQKKHVNPVQALSEF
KAMDSI

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FIGURE 905A

GCGAGAGGAGTCGGGATCTGCGCTGCAGCCACCGCCGCGTTGATACTACTTTGACCTTCCGAGTGCAGTGAGGC
ATACATCACAAATTGGAATTATGCATTGGTTTTATCAATTTACTTGTATTGTACCCCTGCTGCCCAGATATGAC
TTCATGAGGACAGTGATGTGTGTTCTGAAATTGTGAACCATGAGTCTAGTACTTAATGATCTGCTTATCTGCTGC
CGTCAACTAGAACATGATAGAGCTACAGAACGAAAGAAAGTTGAGAAATTTAAGCGCTGATTGAGATCCT
GAAACAATTAACATCTAGATCGGCATTAGATTCCAAACAAGGAAATATTTGAATTGGGATGCTGTTTTAGA
TTTTACAGAAATATATTAGAAAGAAACAGAAATGTCTGAGAATAGCAAAACCAATGTATCAGCCTCAACACAA
GCCTCCAGGCAGAAAAAGATGCAGGAAATCAGTAGTTGGTCAAATACTTCATCAATGTGCAACAGAGAGCA
CCTAGGCTAAAATGTCAAGAACTCTTAAATTATATCATGGATACAGTGAAAGATTATCTAATGGTGTCTATTAC
GGAGCTGATTGTAGCAACATACTACTCAAAGACATTCTTCTGTGAGAAAATACTGGTGTGAAATATCTCAGCAA
CAGTGTGTAGAAATTGTTCTCTGTGTACTTCAGGCTCTATCTGAAACCTTCACAAGATGTTTCATAGAGTTTATGTG
GCTAGATAAATTCATGCTGTTACCAAGGATGCTGTTCTCAGACTGACGGATTAAATTCAAATTTTTGGACTTT
TTTTCCAAGGCTATTTCAGTGTGCGAGACAAGAAAAGAGCTCTTCAGGTCTAAATCATATCTTAGCAGCTCTTACT
ATCTTCTCAAGACTTTGGCTGTCAACTTTGCAATTCGAGTGTGTGAATTAGGAGATGAAATCTTCCCCTTTG
CTTTATATTTGGACTCAACATAGGCTTAATGATTCTTTAAAAGAAGTCATTATTGAATTATTTCAACTGCAAATT
TATATCCATCATCCGAAAGGAGCCAAAACCAAGAAAAGGTGCTTATGAATCAACAAAATGGAGAAGTATTTTA
TACAATTATATGATCTGCTAGTGAATGAGATAAGTCATATAGGAAGTAGAGGAAAGTATCTTCAGGATTTCGT
AATATTGCCGTCAAAGAAAATTTGATTGAATTGATGGCAGATATCTGTACCAGGTTTTTAATGAAGATACCAGA
TCCTTGGAGATTTCTCAATCTTACACTACTACACAAAGAGAATCTAGTGATTACAGTGTCCCTTGCAAAAGGAAG
AAAATAGAACTAGGCTGGGAAGTAATAAAAGATCACCTTCAGAAGTCACAGAATGATTTTGATCTTGTGCCTTGG
CTACAGATTGCAACCAATTAATATCAAAGTATCTGCAAGTTTACCTAACTGTGAGCTGTCTCCATTACTGATG
ATACTATCTCAGCTTCTACCCCAACAGCGACATGGGGAACGTACACCATATGTGTTACGATGCCTTACGGAAGTT
GCATTGTGTCAAGACAAGAGGTCAAACCTAGAAAGCTCACAAAAGTCAGATTTATTAATACTCTGGAATAAAATT
TGGTGTATTACCTTTCTGTTGATAAGTTCTGAGCAAATACAAGCTGAAAACCTTTGGCTTACTTGGAGCCATAATT
CAGGGTAGTTTAGTTGAGGTTGACAGAGAATCTGGAAGTTATTTACTGGGTGAGCCTGCAGACCTTCATGTCTCT
GCAGTATGCTGTTTGACTTTGGCACTGACCACCAGTATAGTCCAGGAGCGGTAAAAATGGGAATAGAGCAAAT
ATGTGTGAAGTAAATAGAAGCTTTTCTTTAAAGGAATCAATAATGAAATGGCTCTTATCTATCAGTTAGAGGGT
GACTTAGAAAAATAGCACAGAAGTGCCTCCAATTCTTCACAGTAATTTTCTCATCTTGTACTGGAGAAAATTCTT
GTGAGTCTCACTATGAAAACGTAAAGCTGCAATGAATTTTTTCCAAAGCGTGCCAGAATGTGAACACCACCAA
AAAGATAAAGAAGAACTTTTCTCTCAGAAGTAGAAGAACTATTTCTTCAGACAACCTTTTGACAAGATGGACTTT
TTAACCATTGTGAGAGAATGTGGTATAGAAAAGCACCAGTCCAGTATTGGCTTCTCTGTCCACCAGAATCTCAAG
GAATCACTGGATCGCTGTCTTCTGGGATTATCAGAACAGCTTCTGAATAATTACTCATCTGAGATTACAAATCA
GAACTCTTGTCCGGTGTTCACGTCTTTTGGTGGGTGTCTTGGCTGCTACTGTTACATGGGTGTAATAGCTGAA
GAGGAAGCATATAAGTCAGAATTATTCCAGAAAGCCAACTCTTAATGCAATGTGCAGGAGAAAGTATCACTCTG
TTTAAAAATAAGACAAATGAGGAATTCAGAATTGGTTTCTTGAGAAATATGATGCAGCTATGTACACGTTGCTTG
AGCAACTGTACCAAGAAGAGTCCAAATAAGATTGCATCTGGCTTTTCTGCGATTGTTAACATCAAAGCTAATG
AATGACATTGCAGATATTTGTAAAAGTTTAGCATCTTTCATCAAAAAGCCATTTGACCGTGGAGAAGTAGAATCA
ATGGAAGATGATACTAATGGAATCTAATGGAGGTGGAGGATCAGTCATCCATGAATCTATTTAACGATTACCTT
GATAGTAGTGTTAGTGATGCAACGAACCTGGAGAGAGCCAAAGTACCATAGGTGCCATTAATCCTTTAGCTGAA
GAATATCTGTCAAAGCAAGATCTACTTTTCTTAGACATGCTCAAGTTCTTGTGTTTGTGTGTAACACTGCTCAG
ACCAATACTGTGTCTTTAGGGCAGCTGATATTCGGAGGAAATGTAAATGTTAATTGATTCTAGCACGCTAGAA
CCTACCAAATCCCTCCACCTGCATATGTATCTAATGCTTTTAAAGGAGCTTCTTGAGAGAAGAGTACCCCTTGCCA
ATGGAAGATGTTCTTGAACCTTCTGAAACCACTATCCAATGTGTGTTCTTTGTATCGTGTGACCAAGATGTTTGT
AAAACATTTTTAAACCATGTCTTTCATGTAGTGAAAAACCTAGGTCAAAGCAATATGGACTCTGAGAACACAAGG
GATGCTCAAGGACAGTTTCTTACAGTAATTGGAGCATTTTGGCATCTAACAAAGGAGAGGAAATATATATTCTCT
GTAAGAATGGCCCTAGTAAATTGCCTTAAACCTTGGCTTGAGGCTGATCCTTATTCAAAATGGGCCATTCTTAAT
GTAATGGGAAAAGACTTTCCGTAAATGAAGTATTTACACAATTTCTTGCTGACAATCATCACCAGTTTCGCATG
TTGGCTGCAGAGTCAATCAATAGATTGTTCCAGGACACGAAGGGAGATTCTTCAGGTTACTGAAAGCACTTCTCT
TTGAAGCTTCAGCAACAGCTTTTGAAAATGCATACTTGAAAGCTCAGGAAGGAATGAGAGAAATGTCCCATAGT

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FIGURE 905B

GCTGAGAACCCTGAAACTTTGGATGAAATTTATAATAGAAAATCTGTTTTACTGACGTTGATAGCTGTGGTTTTA
TCCTGTAGCCCTATCTGCGAAAAACAGGCTTTGTTGCCCTGTGTAAATCTGTGAAAGAGAATGGATTAGAACCCT
CACCTTGTGAAAAAGGTTTTAGAGAAAGTTTCTGAAACTTTTGGATATAGACGTTTAGAAGACTTTATGGCATCT
CATTAGATTATCTGGTTTTGGAATGGCTAAATCTTCAAGATACTGAATACAACCTATCTTCTTTTCTTTTATT
TTATTAAACTACACAAATATTGAGGATTTCTATAGATCTTGTATAAGGTTTTGATTCCACATCTGGTGATTAGA
AGTCATTTTGTAGAGGTGAAGTCCATTGCTAATCAGATTCAAGAGGACTGAAAAGTCTTCTAACAGACTGCTTT
CCAAAGATTCTTGTAATATTCTTCCTTATTTTGCTATGAGGGTACCAGAGACAGTGGGATGGCAGCAGCAAAGA
GAGACTGCTACCAAGGTCTATGATATGCTTAAAGTGAAAACCTATTGGGAAAACAGATTGATCACTTATTTCATT
AGTAATTTACCAGAGATTGTGGTGGAGTTATTGATGACGTTACATGAGCCAGCAAATCTAGTGCCAGTCAGAGC
ACTGACCTCTGTGACTTTTCAGGGGATTGGATCCTGCTCCTAATCCACCTCATTTCCTATCGCATGTGATTAAA
GCAACATTTGCCATATATCAGCAATTGTCATAAAACCAAGTTAAAAAGCATTTTAGAAATCTTTCCAAAAGCCCT
GATTCTATCAGAAAATCTTCTTGCCATATGTGAGCAAGCAGCTGAAACAAATAATGTTTATAAGAAGCACAGA
ATTCTTAAATATATCACCTGTTTGTAGTTTATTACTGAAAGATATAAAAGTGGCTTAGGAGGAGCTTGGGCC
TTTGTCTTCGAGACGTTATTTATACTTTGATTCACTATATCAACCAAAGGCCTTCTGTATCATGGATGTGTCA
TTACGTAGCTTCTCCCTTGTGTGACTTATTAAGTCAGGTTTGCCAGACAGCCGTGACTTACTGTAAGGATGCT
CTAGAAAACCATCTTCATGTTATTGTTGGTACACTTATACCCCTTGTGTATGAGCAGGTGGAGGTTGAGAAACAG
GTATTGGACTTGTGAAATACTTAGTGATAGATAACAAGGATAATGAAAACCTCTATATCAGGATTAAGCTTTTA
GATCCTTTTCTGACCATGTTGTTTTTAAGGATTGCGTATTACTCAGCAAAAAATCAAATACAGTAGAGGACCC
TTTTCACTCTTGAGGAAATTAACCATTTCTCTCAGTAAGTGTATGATGCACTTCCATTGACAAGACTTGAA
GGACTAAAGGATCTTCGAAGACAACCTGGAACACATAAAGATCAGATGTTGGACATTATGAGAGCTTCTCAGGAT
AATCCGCAAGATGGGATTATGGTGAACTAGTTGTCAATTTGTTGCAGTTATCCAAGATGGCAATAAACCACACT
GGTGAAAAAGAAGTTCTAGAGGCTGTTGGAAGCTGCTTGGGAGAAGTGGGTCCTATAGATTTCTCTACCATAGCT
ATACAACATAGTAAAGATGCATCTTATACCAAGGCCCTTAAGTTATTTGAAGATAAAGAACTTCAGTGGACCTTC
ATAATGCTGACCTACCTGAATAACACACTGGTAGAAGATTGTGTCAAAGTTCGATCAGCAGCTGTTACCTGTTTG
AAAAACATTTTAGCCACAAAGACTGGACATAGTTTCTGGGAGATTTATAAGATGACAACAGATCCAATGCTGGCC
TATCTACAGCCTTTTAGAACATCAAGAAAAAGTTTTTAGAAGTACCCAGATTTGACAAAGAAAACCTTTTGAA
GGCCTGGATGATATAAATCTGTGGATTCTCTAAGTGAAATCATGACATTTGGATAAAGACACTGACTTGTGCT
TTTTTGGACAGTGGAGGCACAAAATGTGAAATCTTCAATTATTAAAGCCAATGTGTGAAGTGAAAACCTGACTTT
TGTCAGACTGTACTTCCATCTTGATTGATGATATTTTACTCCAAGATACAAATGAATCATGGAGAAATCTGCTT
TCTACACATGTTGAGGATTTTTCACCAGCTGTCTTCGACACTTCTCGCAAACGAGCCGATCCACAACCCCTGCA
AACTTGGATTGAGAGTCAGAGCACTTTTTCCGATGCTGTTTGGATAAAAAATCACAAGAACAAATGCTTGTGTT
GTGGACTACATGAGAAGACAAAAGAGACCTTCTTCAGGAACAATTTTTAATGATGCTTTCTGGCTGGATTAAAT
TATCTAGAAGTTGCCAAGGTAGCTCAGTCTTGTGCTGCTCACTTTACAGCTTTACTCTATGCAGAAATCTATGCA
GATAAGAAAAGTATGGATGATCAAGAGAAAAGAGTCTTGCAATTTGAAGAAGGAAGCCAGAGTACAACATTTCT
AGCTTGAGTGAAAAAGTAAAGAAGAACTGGAATAAGTTTACAGGATCTTCTCTTAGAAATCTACAGAAGTATA
GGGGAGCCAGATAGTTTGATGGCTGTGGTGGAGGGAAGATGTTACAACCCATTACTAGACTACGAACATATGAA
CACGAAGCAATGTGGGGCAAAGCCCTAGTAACATATGACCTCGAAACAGCAATCCCCTCATCAACAGCCAGGCA
GGAATCATTGAGCCTTGCGAATTTGGGACTCTGCCATATTCTTCCGCTATTTAAAGGATTGGATTATGAA
AATAAAGACTGGTGTCTGAACTAGAAGAACTTCATTACCAAGCAGCATGGAGGAATATGCAGTGGGACCATTGC
ACTTCCGTCAGCAAAGAAGTAGAAGGAACAGTTACCATGAATCATTGTACAATGCTCTACAATCTCTAAGAGAC
AGAGAATTTCTTACATTTTATGAAAGTCTCAAATATGCCAGAGTAAAAGAAGTGGAAGAGATGTGTAAGCGCAGC
CTTGAGTCTGTGATTCTGCTCTATCCCACACTTAGCAGGTTGCGAGGCCATTGGAGAGCTGGAAAGCATTGGGGAG
CTTTTCTCAAGATCAGTCACACATAGACAACCTCTCTGAAGTATATATTAAAGTGGCAGAAACACTCCCAGCTTCTC
AAGGACAGTGATTTTAGTTTTAGGAGCCTATCATGGCTCTACGCACAGTCATTTTGGAGATCCTGATGGAAAAG
GAAATGGACAACCTCACAAGAGAATGTATTAAAGGACATTCTCACCAAACACCTTGTAAGACTCTCTATACTGGCC
AGAATCTTCAAGAACACTCAGCTCCCTGAAAGGGCAATATTTCAAATTAACAGTACAATTCAGTTAGCTGTGGA
GTCTCTGAGTGGCAGCTGGAAGAAGCACAAGTATTCTGGGCAAAAAGGAGCAGAGTCTTGGCCTGAGTATTCTC
AAGCAATGATCAAGAAGTTGGATGCCAGCTGTGCAGCGAACAAATCCCAGCCTAAAACCTTACATACACAGAATGT

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FIGURE 905C

CTGAGGGTTTGTGGCAACTGGTTAGCAGAAACGTGCTTAGAAAATCCTGCGGTTCATCATGCAGACCTATCTAGAA
AAGGCAGTAGAAGTTGCTGGAAATTATGATGGAGAAAGTAGTGATGAGCTAAGAAATGGAAAAATGAAGGCATTT
CTCTCATTAGCCCGGTTTTTCAGATACTCAATACCAAAGAATTGAAAACCTACATGAAATCATCGGAATTTGAAAAC
AAGCAAGCTCTCCTGAAAAGAGCCAAAGAGGAAGTAGGTCTCCTTAGGGAACATAAAATTCAGACAAACAGATAC
ACAGTAAAGGTTTCAGCGAGAGCTGGAGTTGGATGAATTAGCCCTGCGTGCACTGAAAGAGGATCGTAAACGCTTC
TTATGTAAAGCAGTTGAAAATTATATCAACTGCTTATTAAGTGGAGAAGAACATGATATGTGGGTATTCCGGCTT
TGTTCCCTCTGGCTTGAAAATTCTGGAGTTTCTGAAGTCAATGGCATGATGAAGAGAGACGGAATGAAGATTCCA
ACATATAAATTTTTGCCTCTTATGTACCAATTGGCTGCTAGAATGGGGACCAAGATGATGGGAGGCTTAGGATTT
CATGAAGTCCCTCAATAATCTAATCTCTAGAATTTCAATGGATCACCCCCATCACACTTTGTTTATTATACTGGCC
TTAGCAAATGCAAAACAGAGATGAATTTCTGACTAAACCAGAGGTAGCCAGAAGAAGCAGAATAACTAAAAATGTG
CCTAAACAAAGCTCTCAGCTTGATGAGGATCGAACAGAGGCTGCAATAGAATAATATGTACTATCAGAAGTAGG
AGACCTCAGATGGTCAGAAGTGTGAGGCACCTTGTGATGCTTATATTATATTAGCAAACCTTAGATGCCACTCAG
TGGAAGACTCAGAGAAAAGGCATAAATATTCCAGCAGACCAGCCAATTACTAACTTAAGAATTTAGAAGATGTT
GTTGTCCCTACTATGGAATTAAGGTGGACCACACAGGAGAATATGGAATCTGGTGACTATACAGTCATTTAAA
GCAGAATTTTCGCTTAGCAGGAGGTGTAAATTTACCAAAAATAATAGATTGTGTAGGTTCCGATGGCAAGGAGAGG
AGACAGCTTGTTAAGGGCCGTGATGACCTGAGACAAGATGCTGTCATGCAACAGGTCTTCCAGATGTGTAATACA
TTACTGCAGAGAAAACCGAAACTAGGAAGAGGAAATTAATCTATCTGTAATTATAAGGTGGTTCCCTCTCTCAG
CGAAGTGGTGTCTTGAATGGTGACAGGAACGTCCCCATTGGTGAATTTCTTGTAAACAATGAAGATGGTGCT
CATAAAAGATACAGGCCAAATGATTTCAAGTGCCTTTCAGTGCCAAAAGAAAATGATGGAGGTGCAAAAAAGTCT
TTTGAAGAGAAATATGAAGTCTTCATGGATGTTTGCCAAAATTTCAACCAGTTTTCCGTTACTTCTGCATGGAA
AAATCTTGGATCCAGCTATTTGGTTTGAGAAGCGATTGGCTTATACGCGCAGTGTAGCTACTTCTCTATTGTT
GGTTACATACTTGGACTTGGTGATAGACATGTACAGAATATCTTGATAAATGAGCAGTCAGCAGAACTTGTACAT
ATAGATCTAGGTGTGCTTTTGAACAGGGCAAAATCCTTCCTACTCCTGAGACAGTTCCTTTTAGACTCACCAGA
GATATTGTGGATGGCATGGGCATTACGGGTGTTGAAGGTGCTTCAGAAGATGCTGTGAGAAAACCATGGAAGTG
ATGAGAAACTCTCAGGAAACTCTGTTAACCATTGTAGAGGTCTTCTATATGATCCACTCTTTGACTGGACCATG
AATCCTTTGAAAGCTTTGTATTTACAGCAGAGGCCGGAAGATGAAACTGAGCTTCACCCTACTCTGAATGCAGAT
GACCAAGAATGCAAACGAAATCTCAGTGATATTGACCAGAGTTTCAACAAAGTAGCTGAACGTGCTTAAATGAGA
CTACAAGAGAAACTGAAAGGAGTGAAGAAGGCACTGTGCTCAGTGTTGGTGGACAAGTGAATTTGCTCATACAG
CAGGCCATAGACCCCAAAATCTCAGCCGACTTTTCCCAGGATGGAAAGCTTGGGTGTGATCTTCAGTATATGAA
TTACCCCTTTCAATCAGCCTTTAGAAAATTATATTTAGCCTTTATTTTAACTGCCAACATACTTTAAAGTAGGGA
TTAATATTTAAGTGAATATTGTGGGTTTTTTTGAATGTTGGTTTTAATACTTGATTAAATCACCCTCAAAAAT
GTTTTGATGGTCTTAAAGGAACATCTCTGCTTTCACTCTTTAGAAAATAATGGTCATTTCGGGCTGGGCGCAGCGGCT
CACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGAGCGGATCACAAGGTCAGGAGTTCGAGACCAGCCTGGC
CAAGAGACCAGCCTGGCCAGTATGGTGAAACCTGTCTCTACTAAAAATACAAAATTAGCCGAGCATGGTGGCG
GGCACCTGTAGTCCCAGCTACTCGAGAGGCTGAGGCAGGAGAATCTTTGAACCTGGGAGGTGAAGGTTGCTGTG
GGCCAAAATCATGCCATTGCACTCCAGCCTGGGTGACAAGAGCGAACTCCATCTCAAAAA

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FIGURE 906

MTLHEPANSSASQSTDLCDFSGDLDPA NP PPHF PSHVIKATFAYISNCHKTKLKSILEILSKSPDSYQKILLAI
EQAAETNNVYKKHRILKIYHLFVSLLLKDIKSGLGGAFAVLRDVIYTLIHYINQRPSCIMDVSLRSFSLCCDLL
SQVCQTAVTYCKDALENHHLHVIGTLIPLVYEQVEVQKQVLDLLKYLVIDNKNENLYITIKLLDPFPDHFVFKD
LRITQQKIKYSRGFFSLLEEINHFLSVSVYDALPLTRLEGLKDLRRQLELHKDQMDIMRASQDNPDQDIMVKLV
VNLQLQSKMAINHTGEKEVLEAVGSCLEVGPIDFSTIAIQHSDASYTKALKLFEDKELQWTFIMLTYNNTLV
EDCVKVRSAAVTCLKNILATKTGHSFWEIYKMTTDPMLAYLQPFRTSRKKFLEVPRFDKENPFEGLDINLWIPL
SENHDIWIKTLTCAFLDSGGTKCEILQLLKPMCEVKTDFCQTVLPYLIHDILLQDTNESWRNLLSTHVQGFFTSC
LRHFSQTSRSTTPANLDSESEHFFRCCLDKKSQRTMLAVVDYMRQKRPSSGTIFNDAFWLDLNYLEVAKVAQSC
AAHFTALLYAEIYADKKSMDDEKRSALFEEGSQSTTISSSEKSKEETGISLQDLLLEIYRSIGEPDSLYGCGG
GKMLQPIITRLRYEHEAMWGKALVTYDLETAIPSSSTRQAGIIQALQNLGLCHILSVYLKGLDYENKDWCFELEE
HYQAAWRNMQWDHCTSVSKEVEGTSYHESLYNALQSLRDREFSTFYESLKYARVKEVEEMCKRSLESVYSLYPTL
SRLQAIGELESIGELFSRSVTHRQLSEVYIKWQKHSQLLKQSDFSFQEPIMALRTVILEILMEKEMDNSQRECIK
DILTKHLVELSILARTFKNTQLPERAIFQIKQYNSVSCGVSEWQLEEAQVFWAKKEQSLALSILKQMIKKLDASC
AANNPSIKLTYTECLRVCGNWLAETCLENPAVIMQTYLEKAVEVAGNYDGESSDELNRNGMKAFSLARFSDTQY
QRIENYMKSSSEFENKQALLKRAKEEVGLLREHKIQTNRYTVKVQRELELDELALRALKEDRKRFCKAVENYINC
LLSGEEHDMWVFRCLSLWLENSGVSEVNGMMKRDGMKIPTYKFLPLMYQLAARMGTMKGGLGFHEVLNLI SRI
SMDHPHTLFIILALANANRDEFLTKEVARRSRITKNVPKQSSQLDEDRTEANRIICTIRSRPQMVRSEAL
CDAYIILANLDATQWKTQRKGINIPADQPITKLKNLEDVVPTMEIKVDHTGEYGNLVTIQSFKAERLAGGVNL
PKIIDCVGSDGKERRQLVKGRDDLQDAVMQQVFQMCNTLLQRNTETRRKLTICTYKVVPLSQRSVGLEWCTGT
VPIGEFVNNEDGAHKRYRPNDFAFQCQKKMMEVQKKSFEKYEVMQVQNFQPVFRYFCMEKFLDPAIWFEK
RLAYTRSVATSSIVGYILGLDRHVQNILINEQSALVHIDLGVAFEQKILPTPETVPFRLTRDIVDGMGITGV
EGVFRRCCEKTMEVMRNSQETLLTIVEVLLYDPLFDWTMNPALKALYLQQRPEDETELHPTLNADDQECKRNLSDI
DQSFNKVAERVLMLRQEKLGVEEGTVLSVGGQVNLIIQQAIDPKNLSRLFPGWKAWV

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FIGURE 907

GCCTGCGCGGTAGTGGGACCCGACCCTGTCTCCAGTGGGCGTCTTGGGCCCCGGCTCTATTCTGGGCTGCGGGCC
TGGGAAGGGCTCGCCGGGTGCCAAATGAGCTGTCTAACTCTGCGGGGCTGCAGCTTCCTGCATGATGCTGGGGA
GCTTGGCGCCTGACCCAGGATCTAGAAGGCACTCTGGGCAGGCCGCGCTCCGCCCACGAAGGTACCCAACCCTCT
GGGATAGATGCAGGAAGCGATGGTTAAGACCCATTTTCACCCAACCTCTCGCCGCAGGTCTGGCTTACCACACGC
TCCTCCCCATTCCCAGTGAGCCGCTTTTTGCAGCACCAGGCGAACACTTACACCAGTGCTTTGTAAAGGAATCTT
ATTGTCCACCCCGTGTCTTGGCAAAAGAACAGTGATCACACAGATTCCTACTTGGGCTCTTTCCTTTAATCTTCG
GAGGCTGAGTTTGCCCAACTCAGGTTTAACCACCAAGGACTCTGAGAGCTGGCAGGTCTGAGTAACCCTGGTAAC
AATTCTCTTCACCTTATCAAAACCTGAGCTAAAACCAATGCATCAGCTGATGATGACAGCAGAGAGTGGCAGGGC
TGAGGACCCAAAGTCATTTCCAGGCTGGCGGAGAATAAACTGCCAGGGAGAAGAATGAGAAGACAGGAGACAAA
CTGTTTGAAAGCTAAATCTTCCCTCTTAATGAATAAAGGTTTTGCCTTGTCTTAAAGTTTCTGAGTCCTAATT
TTGGCAAAATAAATAACTTATGGTAATCTGGAATTGTATTTGTAATATTAAGTGTTTGAACCTCTAACATTTA
CTTCCCAAAATCAAACCTTCAGTTTCAAAAT

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FIGURE 908

MMLGSLAPDPGSRRHSGQAALRPPTYTLWDRCKRWLRPIFTQLLAAGLAYHTLLPIPSEPLFAAPGEHLHQCF
VKESYCPFRVLAKEQ

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FIGURE 909

GT TTTGAAAGTTGATGGAGCGAACTGCTTTTCCAAAGACTCTTTTGAAAACTTTTAAAGTAGGCCATTCTGACT
TTAACATTTCTCTTTGTCTTAACATTAGACAAAAAGTAACCTTCCTGAAGAGGACATGTGATTGGAAGTTGTCAA
TTGTTGAAGCATTGGTAACTCCAGTCTCTAACGTTTTAGAAAATCATAACAAGCGGTTCTCTACCCTGTAAAGGT
GAACTACTGAGTTCTTCATTATGCTCTGATGGAGATTATGATTACCTCATCAAGTTTTTAGCTTTGGGAGACTCTG
GTGTAGGGAAGACCAGTGTACTTTACCAATATACAGATGGTAAATTTAACTCCAAATTTATCACAACAGTGGGCA
TTGATTTTCAGGGAAAAAAGAGTGGTGTACAGAGCCAGTGGGCCGATGGAGCCACTGGCAGAGGCCAGAGAATCC
ACCTGCAGTTATGGGACACAGCAGGGCAGGAGAGGTTTCGTAGCTTAACGACAGCGTTCTTCAGAGATGCTATGG
GTTTTCTTCTACTTTTTGATCTGACAAATGAGCAAAGTTTCCTCAATGTCAGAACTGGATAAGCCAGCTACAGA
TGCAATGCATATTGTGAAAACCCAGATATAGTGCTGTGTGGAAACAAGAGTGATCTGGAGGACCAGAGAGTAGTGA
AAGAGGAGGAAGCCATAGCACTCGCAGAGAAATATGGAATCCCTACTTTGAACTAGTGCTGCCAATGGGACAA
ACATAAGCCAAGCAATTGAGATGCTTCTGGACCTGATAATGAAGCGAATGGAACGGTGTGTGGACAAGTCTCGGA
TTCCCTGAAGGAGTGGTGCGATCAAATGGTCATGCCTCTACGGATCAGTTAAGTGAAGAAAAGGAGAAAGGGGCAT
GTGGCTGTGAGAACTCAAGTAAGTGACATAGTAGTTCAGGTGGCCCATGCCTGGGATCTTCTCTATGATTGATA
CATGGCACAGTGAGAGATTAATGGGCATTGTGTACAAATTTGCTTCTCACCATCCCCATTAGACCTACGAATAAAG
CATCCGGTTCTAAATTAATTTGTTGCAGCTTTGTAATATTTCTTTAAGATTGAGCTGAGAGTTAGGAGAAAT
ATTTGAGAGCCAAAGTGCCTTATACAACTTAGCCTATTATAGTAAATCATTCAAGGATTGAGAAATTTGCAGT
CACAGAAGAGTGTATTTATTATGTAGAATGAATGAGGGTACTGTACCTGCCTTAATGTAGGTAGGCCCAGAGTC
TTACATTTAAGATCTTACATGCAGTTATAAAACCGCCACAGTCTTCAATCCAGATTGAGAGCTCATGCCATAGG
TGACATTCTAAATATACCATTAAAGCCACTTAAATGTTAAATAAGAATATACATGCACATCAGCTCAATGTCTTTG
AGTATTAATTTTATGTAAGCATTCTATTTAATCATGAATATAGGACAAATCATGGCTATATCTATAGACCTTGGAT
AACTGGATTGACCAATTATACACTCACGGTGACTTTTTTATTGGTGGGAAGGGGATTGGGGTGGGGCAGGCTGG
CTTAATGTAATATGAGCAACCAAGTGGGACTTCTGTCTCCCCGCTATATTCCCATGCTCTGAATGGTTGATTG
AAGGGTCAGGGAAGTATTTTATGGCTTTAGTTCAGTGTGATTGTACATTTATACCTTGCCTATGTGCTGGCCG
CACCTGAACATAGCTGGTGTCTATGCCGAGTTATTTGTGATGAGTAAATATTTAGTTCTTTTTCTTCATATTTA
TAATGTTGATCTGGCATCCTCAGGCTGCAGCTTTATTAGCTTATAAAATTACTCATCTCTGCTTTTACCAGCAGGC
TCTGTATTGTTGATATTTGCAACTTGTTTTGCTTTTCCATTGGTGGAAATGAAATAATTAGTTTTTAATTACATA
AGATGCCTGTTTGCTATTTGGTGGAAAGATAGATGTTTATATTGAAGCAGTCACATTTGTACTGTAGTTCAATAAA
AGAAAAATGAAGTATTTCTGTAGCCTATATTTTTCATAGAGCTCATGAGCATTACTGTACTTGTGGGTCTTGCC
AAGATCAATTTATTCGCTGCATTGCCAAAGTGTCTTCATACCAAATTAAGGTGGTTTTAATATATGTTTCATGG
AAGTTGTTTATAAAATTCAAAGGTATTTCAATTTAGGTGAAAAGTCTTATTTATTAAAGTGGTTTGAATAAAGTAG
ATCAAACTTCCAGAGATCTTAATGGCTATATAGGAAGAAATATCACTCACCATAATTTAAATAAAGATAAAAA
TACATGTATTTTATGGTGGCAAATGTTTGGTAGAACTGTAATTAGAAAAATACAAGTATATTTGCGTGATGGTTA
CACTAGAAGCCAGACTTTACGACTACACAATATATTCATGTATCTAACTGTACTTGTACCCCTAAATTTATT
TTTAAAAA

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FIGURE 910

MSDGDYDYLIKFLALGDSGVGKTSVLYQYTDGKFNSKFITTVGIDFREKRVVYRASGPDGATGRGQRIHLQLWDT
AGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMHAYCENPDIVLCGNKSDLEDQRVVKEEEAIA
LAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMECVDKSWIPEGVVRNNGHASTDQLSEEKEKGACGC

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FIGURE 911

ATTCTTGTCTGTTCTGCCTCACTCCCGAGCTCTACTGACTCCCAAAAGAGCGCCCAAGAAGAAAATGGCCATAAG
TGGAGTCCCTGTGCTAGGATTTTTTCATCATAGCTGTGCTGATGAGCGCTCAGGAATCATGGGCTATCAAAGAAGA
ACATGTGATCATCCAGGCCGAGTTCTATCTGAATCCTGACCAATCAGGCGAGTTTATGTTTGACTTTGATGGTGA
TGAGATTTTCCATGTGGATATGGCAAAGAAGGAGACGGTCTGGCGGCTTGAAGAATTTGGACGATTTGCCAGCTT
TGAGGGCTCAAGGTGCATTGGCCAACATAGCTGTGGACAAAGCCAACCTGGAAATCATGACAAAGCGCTCCAACCTA
TACTCCGATCACCAATGTACCTCCAGAGGTAACCTGTGCTCACGAACAGCCCTGTGGAACCTGAGAGAGCCCAACGT
CCTCATCTGTTTTCATCGACAAGTTCACCCACCAAGTGGTCAATGTACGTGGCTTCGAAATGGAAAACCTGTCAC
CACAGGAGTGTGAGAGACAGTCTTCTGCCCAGGGAAGACCACCTTTTCCGCAAGTTCCACTATCTCCCCTTCCT
GCCCTCAACTGAGGACGTTTACGACTGCAGGGTGGAGCACTGGGGCTTGGATGAGCCTCTTCTCAAGCACTGGGA
GTTTGATGCTCCAAGCCCTCTCCAGAGACTACAGAGAACGTGGTGTGTGCCCTGGGCCTGACTGTGGGTCTGGT
GGGCATCATTATTGGGACCATCTTCATCATCAAGGGAGTGGCAAAAGCAATGCAGCAGAACGCAGGGGGCCTCT
GTAAGGCACATGGAGGTGATGATGTTTCTTAGAGAGAAGATCACTGAAGAACTTCTGCTTTAATGACTTTACAA
AGCTGGCAATATTACAATCCTTGACCTCAGTGAAAGCAGTCATCTTCAGCGTTTTCAGCCCTATAGCCACCCCA
AGTGTGGTTATGCCTCCTCGATTGCTCCGTACTCTAACATCTAGCTGGCTTCCCTGTCTATTGCCTTTTCCTGT
ATCTATTTTCCTCTATTTCCCTATCATTTTATTATCACCATGCAATGCCTCTGGAATAAAACATACAGGAGTCTGT
CTCTGCTATGGAATGCCCCATGGGGCTCTCTTGTGTACTTATTGTTTAAGGTTTCCTCAAACCTGTGATTTTTCTG
AACACAATAAACTATTTTGATGATCTTGGGTGGAAAA

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FIGURE 912

MAISGVPVLGFFIIAVLMSAQESWAIKEEHVIIQAEFYLNPDQSGEFMFDGDEIFHVDMAKKETVWRLEEFGR
FASFEAQGALANIAVDKANLEIMTKRSNYTPITNVPPEVTVLTNSPVELREPNVLICFIDKFTPPVVNVTWLRNG
KPVITGVSETVFLPREDHLFRKFHYLPFLPSTEDVYDCRVEHWGLDEPLLKHWEFDAPSPLPETTENVVCALGLT
VGLVGIIIGTIFIIGVRKSNAEERRGPL

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FIGURE 913

TGCGGCCGCACCTGCAGGCGCAGAGTAGGTATGGAAGATCCCTCGAGATCCATTGTGCTCTAAAGCCGCCGGGGG
TCCGTGTCTGTCTCGGTTGGCCGGACCCGGGCCCGAGCCCGAGCAGTAGCCGGCGCCATGTCGGTGGTGGGCAT
AGACCTGGGCTTCCAGAGCTGCTACGTGCTGTGGCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAG
CGACCGCTGCACGCCGGCTTGCAATTTCTTTTGGTCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGT
AATTTCTAATGCAAAGAACACAGTCCAAGGATTTAAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGA
GGCAGAAAAATCTAACCTTGCAATATGATATTGTGCAGTGGCCTACAGGATTAACAGGTATAAAGGTGACATATAT
GGAGGAAGAGCGAAATTTTACCCTGAGCAAGTGACTGCCATGCTTTTGTCCAACTGAAGGAGACAGCCGAAAG
TGTTCTTAAGAAGCCTGTAGTTGACTGTGTTGTTTCGGTTCCTTGTCTTATACTGATGCAGAAAGACGATCAGT
GATGGATGCAACACAGATTGCTGGTCTTAATTGCTTGCGATTAATGAATGAAACCACTGCAGTTGCTCTTGCA
TGGAATCTATAAGCAGGATCTTCTCGCTTAGAAGAGAAACCAAGAAATGTAGTTTTGTAGACATGGGCCACTC
TGCTTATCAAGTTTCTGTATGTGCAATTAATAGAGGAAACTGAAAGTTCTGGCCACTGCATTTGACACGACATT
GGGAGGTAGAAAATTTGATGAAGTGTTAGTAAATCACTTCTGTGAAGAATTTGGGAAGAAATACAAGCTAGACAT
TAAGTCCAAAATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAAATGC
TTCAGATCTCCCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAATATGAATAGAGGCAAATT
TCTGGAGATGTGCAATGATCTCTTAGCTAGAGTGGAGCCACCACTTCGTAGTGTTTTGGAACAAACCAAGTTAAA
GAAAGAAGATATTTATGCAGTGGAGATAGTTGGTGGTGCTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAA
ATTTTTCGGTAAAGAACTTAGTACAACATTAATGCTGATGAAGCTGTCACTCGAGGCTGTGCATTGCAGTGTGC
CATCTTATCGCCTGCTTTCAAAGTCAGAGAATTTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATG
GAATTCTCCAGCTGAAGAAGGGTCAAGTGACTGTGAAGTCTTTTCCAAAATCATGCTGCTCCTTTCTCTAAAGT
TCTTACATTTTATAGAAAGGAACCTTCACTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGA
TCCTGCTATAGCTCAGTTTTTCAGTTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAAGTGAAAGTCAA
AGTTCGAGTAAATGTCCATGGCATTTCAGTGTGTCCAGTGCATCTTAGTGGAGGTTACAAAGTCTGAGGAAAA
TGAGGAGCCAATGGAAACAGATCAGAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACACATGT
TGAAGAGCAACAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATC
CAAGGATAAAAAGATGGACCAACCACCCCAATGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAA
TCGAGAATCAGCTATATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAATGAGGGTAAGATGATCAT
GCAGGATAAACTGGAGAAGGAGCGGAATGATGCTAAGAACGCAGTGGAGG

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FIGURE 914

MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAKSQVISNAKNTVQGFKRFHGRAF
SDPFFVEAEKSNLAYDIVQWPTGLTGIKVTYMEERNFTTEQVTAMLLSKLKETAESVLKPKVVDCCVSVPCFYTD
AERRSVMDATQIAGLNCRLMNETTAVALAYGIYKQDLPRLEEKPRNVFVDMGHSAYQVSVCAFNRGKLKVLAT
AFDTTLGGRKFDEVLVNHFC EEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPAFAKVRFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLPYPDPAlAQFSVQKVTPQSDGSSSKVKVKVRVNVHGIFSVSSASLVEVHKSEENEPMETDQNAKEEEKMQVD
QEEPHVEEQQQTPAENKAEESEMETSQAGSKDKKMDQPPQCQEGKSEDQYCGPANRESAIWQIDREMLNLYIEN
EGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEK FVSEDDRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQESEERP NYLKN

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FIGURE 915

GAATCAGGAAGACCAGCTCCTCCTACTGTCTTCTGTGTTACGGGATCAGCGTTCCTTGTGAGTGGGACCTGAGT
TTTGAGAGGGTCTTCTGCTCCTCTTGGTCTGGTCCCTTACTTCCAAGAGCCCCAGAGAGGAAGGCATGCTGTGG
CTCTAGCTCTGCTTCTAGCTTTCCCTGCTCCTGCCAGTCAGAAATCTTCCAACCTGGAAGGGAGAACAAAGTCAG
TCACCAGGCCAACTGGGTCATCAGCTGTAATCACTTGTGATCTTCCCTGTAGAAAATGCCGTCTACACCCACTGGT
ACCTACACCAGGAGGGGAAGGCCCCACAGCGTCTTCTGTACTATGACTCCTACAACCTCCAGGGTGTGTGTTGAAT
CAGGAATCAGTCGAGAAAAGTATCATACTTATGCAAGCACAGGGAAGAGCCTTAAATTTATACTGGAAAATCTAA
TTGAACGTGACTCTGGGGTCTATTACTGTGCCACCTGGAAGGATTATTATAAGAACTCTTGGCAGTGGAAACA
CACTTGTGTGTCACAGATAAAACAACCTTGATGCAGATGTTTCCCCAAGCCCACTATTTTTCTCCTTCGATTGCTG
AAACAAAACCTCCAGAAGGCTGGAACATATCTTGTCTTCTTGAGAAATTTTTCCAGATATTATTAAGATACATT
GGCAAGAAAAGAAGAGCAACACGATTCTGGGATCCCAGGAGGGGAACACCATGAAGACTAACGACACATACATGA
AATTTAGCTGGTTAACGGTGCCAGAAGAGTCAGTGGACAAAAGAACACAGATGTATCGTCAGACATGAGAATAATA
AAAACGGAATTGATCAAGAAATTATCTTCTCCTCAATAAAGACAGATGTCACCACAGTGGATCCCAAAGACAGTT
ATTCAAAGATGCAAATGATGTCACCACAGTGGATCCCAAATACAATTATTCAAAGGATGCAAATGATGTCATCA
CAATGGATCCCAAAGACAATTGGTCAAAGATGCAAATGATACACTACTGCTGCAGCTCACAAACACCTCTGCAT
ATTACATGTACCTCCTCCTGCTCCTCAAGAGTGTGGTCTATTTTGCCATCATCACCTGCTGTCTGCTTGGGAAGAA
CGGCTTTCTGCTGCAATGGAGAGAAATCATACAGACGGTGGCACAAGGAGGCCATCTTTCTCATCGGTTATT
GTCCCTAGAAGCGTCTTCTGAGGATCTAGTTGGGCTTTCTTCTGGGTTTGGGCCATTTTCACTTCTCATGTGTGT
ACTATTCTATCATTATTGTATAATGGTTTTCAAACAGTGGGCACACAGAGAACCTCAGTCTGTAATAACAATGA
GGAATAGCCATGGCGATCTCCAGCACCAATCTCTCCATGTTTCCACAGCTCCTCCAGCCAACCCAAATAGCGCC
TGCTATAGTGTAGACAGCCTGCGGCTTCTAGCCTTGTCCTCTCTTAGTGTTCTTTAATCAGATAACTGCCTGGA
AGCCTTTTCAATTTTACACGCCCTGAAGCAGTCTTCTTGTAGTTGAATTATGTGGTGTGTTTTCCGTAATAAGC
AAAATAAATTT

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FIGURE 916

MLLALALLLAFLLPPASQKSSNLEGRKSVTRPTGSSAVITCDLPVENAVYTHWYLHQEGKAPQRLLYDSYNSRV
VLESGISREKYHTYASTGKSLKFILENLIERDSGVYYCATWKDYKKLFGSGTTLVVTDKQLDADVSPKPTIFLP
SIAETKLQKAGTYLCLLEKFFPDIIKIHWQEKKSNTILGSQEGNTMKTNDTYMKFSWLTVPESLDKEHRCIVRH
ENNKNGIDQEIIFPPIKTDVTTVDPKDSYSKDANDVTTVDPKYNYSKDANDVITMDPKDNWSKDANDTLLLQLTN
TSAYMYLLLLLKSVVYFAIITCCLLGRTAFCCNGEKS

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FIGURE 917

GAATTCCTTTTTTGGACTGAGTCTCCCTCTGTACCTAGGCTGGAGTGCAGTGGCACAATCTTGGCTCGCTGCAA
CCTTCACCTTCACCTCCCAGGTCGAAGCGATTCTCTGCCTCAGTCTCCCGAGTAGCTGGGATTACAGGCGTGC
GCCACCAATCTGGCTATTTTTTATTATTATTATTTTGGAGTAGAGATGGGGTTTCACCATGTTGGCCAGACTGG
TCTTGAACCTCTTGGCCTCAAATTATCTGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCA
TGCCCAGATGACAAGACTAATTTTTATCCCTTTGGTTTATTGGCTACAACATCTTCTTGAATCAGAGGTGAAT
TTTTCTTACCTTGGGATGCCTGAGACTAGGGGAGTATAGAATCCAATTGGTAATTAAGGCATCTTCTGCTCC
TGATCAGAAGGGCAGGTTAGTTGGGAGAGGTCAGATGGCACAACAGAAGTCACCTTGTAAAGTAAGGCAAAGACTT
GAAGGCATTAGCGTTTCTCATTACTAGGTCAATAACCTGAGGGAAATCAATGGCTTTTGGCGCTCTACCTCTTGT
GTATCTCTTTGACTTTTCTTCTCTGTCTAGGGCATTCTGAACTGTCAATCAGGGACAGGCATTAGAGCCCAA
ACAGGATGCTTTCCAAGGCCAAGAAGCAGCAGTAATGATGGATCAGAAGGCAGGATTATATGGACAGACATACCC
AGCACAGGGGCCCTCAATGCAAGGAGGCTTTTCATCTCAGGGACAATCACCATCTTTAACTCTATGATGAATCA
GATGAACCAGCAAGGCAATTTTCTCTCCAAGGAATGCACCCACGAGCCAACATCATGAGACCCCGGACAAACAC
CCCCAAGCAACTTAGAATGCAGCTTCAGCAGAGGCTGCAGGGCCAGCAGTTTTTGAATCAGAGCCGACAGGCACT
TGAATTGAAAATGAAAACCCCTACTGCTGGTGGTGTGCGGTGATGAGGCCTATGATGCAGCCCCAGGTGAGCTC
CCAGGAGGGTTTTCTTAATGCTCAAATGGGCGCCCAACGGAGGAGAGAGCTGCTAAGTCATCACTTCCGACAACA
GAGGGTGGCTATGATGATGCAGCAGCAGCAACAGCAGCAACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCA
GCAACAGCAACAGCAACAGCAGCAACAGGAGCAACCCAGGTCTTCAGCCACCTCCTAATGTGACTGCTCCCCC
AGCATGGATGGCTTKYGGCAGGACCCACAATGCCACAAGCTCCTCCGCAACAAGTTTCCAATATCCAACCCCAA
TTATGGGAATGGGGACCAACCAACAAAGATCCAGCCTTTGGGTGCGAGTGTCTAAGTCTCCCAATGCAATGATGT
CGTCAAGAATGGTCCCTCCCAGAAATCCCATGATGCAACACCCGCGAGGCTGCATCCATCTATCAGTCCCTCAGAAAT
GAAGGGCTGGCCATCAGGAAATTTGGCCAGGAACAGCTCCTTTTCCAGCAGCAGTTTGGCCACCAGGGGAATCC
TGCACTGTATAGTATGGTGCACATGAATGGCAGCAGTGGTCACATGGGACAGATGAACATGAACCCCATGCCCAT
GTCTGGCATGCCTATGGGTCTGATCAGAAATACTGCTGACATCTCTGCACCAGGACCTCTTAAGGAAACCACTG
TACAAATGACACTGCACTAGGATTATTGGGAAGGAATCATTGTTCCAGGCCATCCATCTTGGGAAGAAAGGACC
AGCTTTTGGCTCCATCAAGGTATTTTAAGTGATGTCATTGAGCAGGACTGGATTTAAGCCGAAGGGCAATA
TCCAACGTGTTTTTCCCCCTCCTTCTGCTGTGTATCATGGTGTTCAAAACAGAAATGTTTTTGGCATTCCAC
CTCCTAGGGATATAATTCTGGAGACATGGAGTGTACTGATCATAAACTTTTGTGTCACTTTTTCTGCTTGC
TAGCCAAAATCTCTTAAATACACGTAGGTGGGCCAGAGAACATTGGAAGAATCAAGAGAGATTAGAATATCTGGT
TTCTCTAGTTGCAGTATTGGACAAAGAGCATAGTCCAGCCTTCAGGTGTAGTAGTTCTGTGTGACCCCTTGTG
CAGTGGAAATTGGTGATTCTGAATTGTCCTTTACTAATGTTGTTGAGTTGCTCTGTCCCTATTATTGGCCTAGCC
TTTCTCCTAATGGGGTTTTTCAATTGGCATTATGTCCTGTAAACTTCACCTCCAGGAAGTGTATGGATGTCC
AAATGGCTTTGCAGAAAGGAAATGAGATGACAGTATTTAATCGCAGCAGTAGCAAACTTTTACATGCTAATGTG
CAGCTGAGTGCACCTTTATTTAAAAGAATGGATAAATGCAATATTCTTGAGGTCTTGAGGGAATAGTGAACACA
TTCTTGGTTTTTGCCTACACTTACGTGTAGACAAGAACTATGATTTTTTTTTTAAAGTACTGGTGTACCCCTT
TGCCATATAGGTAGAGCAATAATGCTTTTTTAAAATAAACTTCTGAAAACCCAAGGCCAGGTACTGCATTCTGAA
TCAGAACTCTCGCAGTGTCTGTGAATAGATTTTTTGTAAATATGACCTTTAAGATATGTATTATGTAAAATA
TGTATATACCTTTTTTTGTAGGTGCACAGCGXCTCATTTTACAGAGTTTGTGAAGCTAAATATTTAACATTGT
TGATTCAGTAAGCTGTGTGGTGAGGCTXCCAGTGGAGAGACATCCCTTGACTTTTGTGGCCTGGGGGAGGGGT
AGTGTCCACAGCTTTTCCCTCCCCXCCCCCAGCCTTAGATGCCCTCGCTCTTTTCAATCTCTTAATCTAAATGC
TTTTTAAAGAGATTATTGTTTAGATGTAGGCATTTAATTTTTTAAAAATTCCTCTACCAGAACTAAGCACTTT
GTTAATTGGGGGGGAGAATAGATATGGGGAGAAAACTTAAAAAAAATCAGGAATTAAGGAGGAGCA
ATTTGAAGAGAACTTTTGGATTTTAAAGCAGTCCGAAATAATAGCAATTCATGGGCTGTGTGTGTGTGTATGT
GTGTGTGTGTGTGTGAATGTTTAAAGTATGTTACCTTTTCATCCCTTTAGGAGCGTTTTTCAATTTTGGTTGC
TAAGACCTGAATCCCATATTGAGATCTCGAGTAGAATCCTTGGTGTGGTTTCTGGTGTCTGCTCAGCTGTCCCT
CATTCTACTAATGTGATGCTTTTATTATGTCCCTGTGGATTAGAATAGTGTGAGTTATTCTTAAAGTAACTCAGT
ACCCAGAACAACAGTTTTTACTGTGATTCAGAGCCACAGTCTAACTGAGCACCTTTTAAACCCCTCCCTCTCTG
CCCCTACCCTTTTCTGCTGTGGCTCTCGGAATTC

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FIGURE 918

MMDQKAGLYGQTYPAQGPPMQGGFHLQGGSPSFNSMMNQMNQQGNFPLQGMHPRANIMRPTNTPKQLRMQLQQR
LQGGQFLNQSRQALELKMENPTAGGAAVMRPMMQPQVSSQEGFLNAQMGAQRRRELLSHHFQQRVAMMMQQQQQ
QQQQQQQQQQQQQQQQQQQQQQEQPQVFSPPPNVTAPPAWMAXGRTHNATSSSATSFQYPTPNYGNGDQPTKIQ
PLGRVSKSSQCNDVVKNGPSQNPMMQHPQAASIYQSSEMKGWPSGNLARNSSFQQQFAHQGNPAVYSMVHMNGS
SGHMGQNMNPNPMSGMPMGPDQKYC

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FIGURE 919A

ATTTCGCCAGCAGGAGCCGCGCGGTAGATGCGGTGCTTTTAGGAGCTCCGTCGACAGAACGTTGGGCCTTG
CCGGCTGTCGGTATGTCGCGACAGAGCACCCTGTACAGCTTCTTCCCAAGTCTCCGGCGCTGAGTGATGCCAAC
AAGGCCTCGGCCAGGGCCTCACGCGAAGGCGGCCGTGCCGCCGTGCCCGGGGCGCTCTCCTTCCCGAGGCGGG
GATGCGGCCTGGAGCGAGGCTGGGCCTGGGCCAGGCCCTTGGCGCGATCCGCGTCACCGCCCAAGGCGAAGAAC
CTCAACGGAGGGCTGCGGAGATCGGTAGCGCCTGCTGCCCCACCAGTTGTGACTTCTCACCAGGAGATTGGTT
TGGGCCAAGATGGAGGGTTACCCCTGGTGGCCTTGTCTGGTTTACAACCACCCCTTTGATGGAACATTCATCCGC
GAGAAAGGGAAATCAGTCCGTGTTCATGTACAGTTTTTTGATGACAGCCCAACAAGGGGCTGGGTAGCAAAAGG
CTTTTAAAGCCATATACAGGTTCAAAATCAAAGGAAGCCAGAAAGGGAGGTCATTTTTACAGTGCAAAGCCTGAA
ATACTGAGAGCAATGCAACGTGCAGATGAAGCCTTAAATAAAGACAAGATTAAGAGGCTTGAATTGGCAGTTTGT
GATGAGCCCTCAGAGCCAGAAGAGGAAGAAGAGATGGAGGTAGGCACAACCTTACGTAACAGATAAGAGTGAAAGAA
GATAATGAAATTGAGAGTGAAGAGGAAGTACAGCCTAAGACACAAGGATCTAGGCGAAGTAGCCGCCAAATAAAA
AAACGAAGGGTCATATCAGATTCTGAGAGTGACATTGGTGGCTCTGATGTGGAATTAAGCCAGACACTAAGGAG
GAAGGAAGCAGTGATGAAATAAGCAGTGGAGTGGGGATAGTGAGAGTGAAGGCCTGAACAGCCCTGTCAAAGTT
GCTCGAAAGCGGAAGAGAATGGTGAAGTGGCTCTCTTAAAGGAAAAGCTCTAGGAAGGAAACGCCCTCA
GCCACCAAAACAAGCAACTAGCATTTCATCAGAAACCAAGAATACTTTGAGAGCTTCTCTGCCCTCAAAATTCT
GAATCCCAAGCCCACGTTAGTGGAGGTGGTGTGACAGTAGTCGCCCTACTGTTTGGTATCATGAACTTTAGAA
TGGCTTAAGGAGGAAAAGAGAAGAGATGAGCACAGGAGGAGGCCTGATCACCCTGATTTGATGCATCTACACTC
TATGTGCTGAGGATTTCTCAATTCTGTACTCTGGGATGAGGAAGTGGTGGCAGATTAAGTCTCAGAACTTT
GATCTTGTCTGTTTACAAGGTGGGAAATTTTATGAGCTGTACCACATGGATGCTCTTATTGGAGTCAGTGAA
CTGGGCTGGTATTATGAAAGGCAACTGGGCCATTCTGGCTTCTCTGAAATTGCATTTGGCCGTATTTCAGAT
TCCCTGGTGCAGAAGGGCTATAAAGTAGCAGAGTGGAAACAGACTGAGACTCCAGAAATGATGGAGGCACGATGT
AGAAAGATGGCACATATATCCAAGTATGATAGAGTGGTGAAGGAGGAGATCTGTAGGATCATTACCAAGGGTACA
CAGACTTACAGTGTGCTGGAAGGTGATCCCTCTGAGAACTACAGTAAGTATCTTCTTAGCCTCAAAGAAAAGAG
GAAGATTCTTCTGGCCATACTCGTGCATATGGTGTGTGCTTTGTTGATACTTCACTGGGAAAGTTTTTCATAGGT
CAGTTTTTCAGATGATCGCCATTGTTTCGAGATTTAGGACTCTAGTGGCACACTATCCCCAGTACAAGTTTTATTT
GAAAAAGGAAATCTCTCAAAGGAACTAAAACAATTTAAAGAGTTCATTGTCCTGTTCTCTTCAGGAAGGTCTG
ATACCCGGCTCCCAGTTTTGGGATGCATCCAAAACCTTTGAGAACTCTCCTTGAGGAAGAATATTTTAGGAAAAG
CTAAGTGATGGCATTGGGGTGATGTTACCCAGGTGCTTAAAGGTATGACTTCAGAGTCTGATTCCATTGGGTTG
ACACCAGGAGAGAAAAGTGAATTGGCCCTCTCTGCTCTAGGTGGTTGTGCTTCTACCTCAAAAAATGCCTTATT
GATCAGGAGCTTTTATCAATGGCTAATTTGAAGAATATATTCCCTTGATTCTGACACAGTCAGCACTACAAGA
TCTGGTGCTATCTTCACCAAGCCTATCAACGAATGGTGCTAGATGCAGTGACATTAAACAACCTTGGAGATTTTT
CTGAATGGAACAAATGGTTCTACTGAAGGAACCTACTAGAGAGGGTTGATACTTGCCATACTCCTTTTGGTAAG
CGGCTCCTAAAGCAATGGCTTTGTGCCCCACTCTGTAACCATTATGCTATTAATGATCGTCTAGATGCCATAGAA
GACCTCATGGTTGTGCTGACAAAATCTCCGAAGTTGTAGAGCTTCTAAAGAAGCTTCCAGATCTTGAGAGGCTA
CTCAGTAAATTCATAATGTTGGGTCTCCCTGAAGAGTCAGAACCCAGACAGCAGGGCTATAATGTATGAA
GAACTACATACAGCAAGAAGAAGATTATTGATTTTTCTTTCTGCTCTGGAAGGATTCAAAGTAATGTGTAAATTT
ATAGGGATCATGGAAGAAGTTGCTGATGGTTTTAAGTCTAAAATCCTTAAGCAGGTCACTCTCTGACAGCAAAA
AATCCTGAAGGTGCTTTTCTGATTTGACTGTAGAATTGAACCGATGGGATACAGCCTTTGACCATGAAAAGGCT
CGAAAGACTGGACTTATTACTCCCAAAGCAGGCTTTGACTCTGATTATGACCAAGCTCTTGCTGACATAAGAGAA
AATGAACAGAGCCTCCTGGAATACCTAGAGAAACAGCGCAACAGAATTGGCTGTAGGACCATAGTCTATTGGGGG
ATTGGTAGGAACCGTTACCAGCTGGAAATTCCTGAGAAATTCACCACTCGCAATTTGCCAGAAGAATACAGATTG
AAATCTACCAAGAAGGGCTGTAAACGATACTGGACCAAACTATTGAAAAGAAGTTGGCTAATCTCATAAATGCT
GAAGAACGGAGGGATGTATCATTGAAGGACTGCATGCGGCGACTGTTCTATAACTTTGATAAAAATTACAAGGAC
TGGCAGTCTGCTGTAGAGTGTATCGCAGTGTGGATGTTTTACTGTGCTGGCTAACTATAGTCGAGGGGGTGAT
GGTCTATGTGTGCGCCAGTAATTCGTTGCCGGAAGATACCCCCCTTCTTAGAGCTTAAAGGATCACGCCAT
CCTTGCAATTACGAAGACTTTTTTTGGAGATGATTTTATTCCTAATGACATTCTAATAGGCTGTGAGGAAGAGGAG
CAGGAAAATGGCAAAGCCTATTGTGTGCTTGTACTGGACCAATATGGGGGGCAAGTCTACGCTTATGAGACAG
GCTGGCTTATTAGCTGTAATGGCCAGATGGGTTGTTACGTCCCTGCTGAAGTGTGACGGCTCACACCAATTGAT

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FIGURE 919B

AGAGTGTTTACTAGACTTGGTGCCTCAGACAGAATAATGTCAGGTGAAAGTACATTTTTTGTGAATTAAGTGAA
ACTGCCAGCATACTCATGCATGCAACAGCACATTCTCTGGTGCTTGTGGATGAATTAGGAAGAGGTACTGCAACA
TTTGATGGGACGGCAATAGCAAATGCAGTTGTTAAAGAAGTTGCTGAGACTATAAAATGTCGTACATTATTTTCA
ACTCACTACCATTTCATTAGTAGAAGATTATTCTCAAAATGTTGCTGTGCGCCTAGGACATATGGCATGCATGGTA
GAAAATGAATGTGAAGACCCAGCCAGGAGACTATTACGTTCCCTCTATAAATTCATTAAAGGGAGCTTGTCTAAA
AGCTATGGCTTTAATGCAGCAAGGCTTGCTAATCTCCAGAGGAAGTTATTCAAAAGGGACATAGAAAAGCAAGA
GAATTTGAGAAGATGAATCAGTCACTACGATTATTTGCGGAAGTTTGCTGGCTAGTGAAAGGTCAACTGTAGAT
GCTGAAGCTGTCCATAAATTGCTGACTTTGATTAAGGAATTATAGACTGACTACATTGGAAGCTTTGAGTTGACT
TCTGACCAAAGGTGGTAAATTCAGACAACATTATGATCTAATAAACTTTATTTTTTAAAAATGA

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FIGURE 920

MSRQSTLYSFFPKSPALSDANKASARASREGGAAAAFGASPSPGGDAAWSEAGPGPRPLARSASPPKAKNLNGG
LRRSVAPAAPTSCDFSPGDLVWAKMEGYPWWPCLVYNHFFDGTFFIREKGKSVRVHVQFFDDSPTRGWVSKRLLKP
YTGSKSKEAQKGGHFYSAPKEILRAMQRADEALNKDKIKRLELAVCDEPSEPEEEEEEMEVEGTTYVTDKSEEDNEI
ESEEEVQPKTQGSRRSSRQIKKRRVISDSESDIGGSDVEFKPDTKEEGSSDEISSGVGDSESEGLNSPVKVARKR
KRMVTGNGLKRRSSRKETPSATKQATSISSETKNTLRAFSAQNSESQAHVSGGGDDSSRPTVWYHETLEWLKE
EKRRDEHRRRPDHPDFDASTLYVPEDFLNSCTPGMRKWWQIKSQNFDLVICYKVGKIFYELYHMDALIGVSELGLV
FMKGNWAHSGFPEIAFGRYSDSLVQKGYKVARVEQTETPEMMEARCRKMAHISKYDRVVRREICRIITKGTQYTS
VLEGDPSENYSKYLLSLKEKEEDSSGHTRAYGVCFVDTSLGKFFIGQFSDDRHCSTRFTLVAHYPPVQVLFKGN
LSKETKTIKSSLSLQEGLI PGSQFWDASKTLRTLLEEEYFREKLSDGIGVMLPQVLKGMTSESDSIGLTPGE
KSELALSALGGCVFYLKKCLIDQELLSMANFEEYIPLSDTVSTTRSGAIFTKAYQRMVLDVATLNNLEIFLNGT
NGSTEGTLLERVDTCHTPFGKRLKQWLCAPLCNHYAINDRLDAIEDLMVVPDKISEVVELLKKLPDLERLLSKI
HNVGSP LKSNHPDSRAIMYEETTSKKKIIDFLSALEGFKVMCKIIGIMEEVADGFKSKILKQVISLQTKNPEG
RFPDLTVELNRWDATFDHEKARKTGLITPKAGFDSYDQALADIRENEQSLLEYLEKQNRNIGCRTIVYWGIGRN
RYQLEIPENFTTRNLPEEYELKSTKKGCKRYWTKTIEKKLANLINAERRDVSLKDCMRRLFYNFDPKNYKDWQSA
VECIAVLVLLCLANYSRGGDGPMCRPVILLPEDTPPFLELKSRHPCITKTFGDDFIPNDILIGCEEEEQENG
KAYCVLVTGPNMGGKSTLMRQAGLLAVMAQMGCVPAEVCRLTPIDRVFTRLGASDRIMSGESTFFVELSETASI
LMHATAHSLVLVDELGRGTATFDGTAIANAVVKELAETIKRCLFSTHYHSLVEDYSQNVAVRLGHMACMVENEC
EDPSQETITFLYKFIKGACPKSYGFNAARLANLPEEVIQKGRKAREFEKMNQSLRLFREVLASERSTVDAAV
HKLLTLIKEL

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FIGURE 921

GAAAAGCCGCCGGTATTTCTCCACCTGGCTCTCCTCTACCTCCAGGCAGGCGCACCCGAGGTCCCCCTCCCACCC
CACCTTCTGCCCTCCCGCACACTTGGACCAGTGTCTGTTGACCCGGAAGCGGACATTTCTGCAGCTATTCTAAGCA
CACGTCCGCCGAGGGAGCGGGACGTGGCCAGCGGTGAGCGGCGAAGGAGGCAGGCCCTGCGCGGGGATCACGGAA
GCCCTGTGATTACCAATGAAGTTCCAGTACAAGGAGGTCCATCCCTTTGAGTATCGGAAAAAGGAAGGAGAAAAAG
ATCCGGAAGAAATATCCGGACAGGGTCCCCTTGATTGTAGAGAAGGCTCCAAAAGCAAGGGTGCTGTATCTGGAC
AGGAGGAAGTACCTAGTGCCCTCCGACCTTACCGATGGCCAGTTCTACCTTTTAATCCGGAAGAGAATCCACCTG
AGACCTGAGGACGCCTTATTCTCTTTGTCAACAACACTATCCCTCCCCTAGTGTACCATGGGCCAACTATAT
GAGGACAGTCATGAGGAAGATGATTTTCTGTATGTGGCCTACAGTAATGAGAGTGTCTATGGGAAATGAGTGGTT
GGAAGCCCAGCAGATGGAAGCACCTGGACTTAGGGGTAGGGGAGGGGTGTGTGTGTGACTTGGGGAAAGAGAGGG
CGGCTCCCACCGTGAGGAGACAGAAGGTGAAGACATATAGAACTTTACACCGCACACACCGTCAACGCATTTTC
ACATGCTCAACTGATATTTTTTGTGCTTCCTTGGCCCAGGGAGAAAGCATGTCAGGACAGAGCTGTTGGATTGG
CTTTGATAGAGGAATGGGGATGATGTAATTTTATGGCATTCCCTGAGATTTAATTTTGTGCACTTTCATAGAAAG
GTCGGTICAGGAGGTGGACAAGTTGGGGTCAGAGATGATGGCAGTCCAGCAGCAACTCCCTGTGCTCCCTTCTCTT
TGGGCAGAGATTCTGTTTTTGACAGTTGCACAAGACAGGTAGGGAAAGGGGACTTGTGGTAGTGGGCCATACCTG
GGGACGAAAAGAGACCCACTGTAATTGATGCATCGTGGCCCCGATCTTCCGTATCCCACACTTCTTTTCTCCCA
TCCAGTTGCAATCTCACTCACAAACATCACAGTACCACCCAGGGGCGGCAGTAGACACCAACCCAGAAATTTA
GACAGGGATCTCTTATCTTTGGAAAAATAGGGGTAGGCATGAGGGTGGTTATGATTAAGAAGATAATTTTGTGT
TAAATAGCATTAAACTGGAATTGACAGAGTGAGTTGAGCATCTCTGTCTAACCTGCTCTTTCTCTCTGGTGCTCC
TCATCTCACCCCTACCTTGGAATTTAATAAGCTTCAGGCATTTCCAATTGCAGACTAAAACCACTTCTACCATCT
CCTCTAGTATTTTCCATGTATCAGGACAGAGATGTCTTATGTAGGGAAGGGGCAGGTATGAAGTGAGGTAGATTA
TCTATACCTCTCACTCATTCAAGGATTCTCGCTCCCATGCTGTCTCCCTTCATTCTCACACTCACAGGAATGCTA
TGIGATGGCCAGCTGCTTCCCTTCTTGGTTATCCACTGCAGCTGCTAGTTAGAAAGGTTTGCAGGGATGACTTTT
AGTAAATCATGGGGATTTTATTGATTTATTATCACTTATAGGATTTTGTGGGGTGGGAGTGGGGAGCAGGAATTG
CACTCAGACATGACATTTCAATTCATCTCTGCAAATGAAAAGGGTTCTTCCTCTTGGGGGAAATCTGTGTGTCAG
TTCTGTGCTGCAAGTTCTTGTGTAATGAAGTCAATGCTGTGTCAGGCCAAG

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FIGURE 922

MKFQYKEVHPFEYRKKEGEKIRKKYPDRVPLIVEKAPKARVPDLDRKYLPSDLTDGQFYLLIRKRIHLRPEDA
LFFVNNITIPPTSATMGQLYEDSHEEDDFLYVAYSNESVYGK

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FIGURE 923

TGTCAAAGCCTGCACACGAGACCCCGTGGGCCAGGACTGACTTCTCTCCACACAGGGCTGGGCGGGCAAGC
AGGAAGGAGCCTGTTACAGTCAAGGTGACGCATCCTTGCCGGGCCAGCCGAACAGCAGCTGGGTGCGCAAGCGA
CAGGAGCACGGGTATCTTTTCCCGAGAGGCGTCGGAATGACCTGTGCCACCCAGAGCCCGCGGAGCTGAGCAG
CGGGGAGACGGAAGAGTTACAGAGGATCAAGTGGCACCGAAAGCAGCTCCTGGAGGACATCCAGAAGCTGAAGGA
TGAGATTGCAGATGTGTTTGCCCAAATCGACTGCTTCGAGAGTGGGAGGAGAGCCGGATGGCCCAAGGAGAA
GGAGCTGTGTATTGGGCGCAAGAAGTTCAACATGGACCCCGCCAAAGGTATCCAGTATTTTATTGAGCACAAGCT
GCTGACCCCTGACGTCCAGGACATTGCACGGTTCCTGTATAAAGGCGAGGGCCTCAACAAGACAGCCATTGGTAC
CTACCTGGGGGAGAGGGATCCCATCAACCTGCAGGTCTTCAGGCCTTCGTGGACTGCCACGAGTTCGCCAACCT
CAACCTCGTCCAGGCCCTCAGGCAGTTCCTGTGGAGCTTCGGCTGCCGGGCGAGGCCCAGAAGATAGACCGGAT
GATGGAGGCCTTTGCCACTCGATACTGCCTCTGCAACCCAGGCGTCTTCAGTCCACAGACACCTGCTACGTGTT
GTCTTCTCCATCATCATGCTCAACACCAGCCTCCACAATCCCAACGTCCGGGACAGGCCGCCTTTGAGCGCTT
TGTGTCCATGAACCGCGCATCAACAATGGTAGCGACCTGCCCGAGGACCAGCTGCGGAACCTCTTCGACAGCAT
CAAGAGTGAGCCATTCTCCATCCCTGAGGACGACGGCAATGACCTCACTCACACCTCTTCAATCCAGACCGGGA
GGGTGGCTGCTCAAGCTAGGGGGCCGCGTGAAGACGTGGAACGCGCTGGTTATCCTGACCGACAACCTGCCT
CTACTACTTCGAGTTCACCACTGACAAGGAGCCACGGGAATTATACCTCTTGAGAACCTCTCGGTGCAGAAGGT
GGATGACCCCAAGAAGCCATTCTGCCTGGAGCTCTACAACCTAGCTGCCGAGGCCAGAAAATCAAGCCTGCAA
GACCGATGGCGACGGCAGGGTGGTGGAGGGCAAGCAGAAATCGTACCGCATCTCAGCCACCAGTGCCGAGGAACG
TGACCAGTGGATCGAGTCCATCCGAGCCAGCATACCCGTGTCCCTTCTACGACCTGGTCTCTACTCGGAAGAA
GAAGATTGCCAGCAAGCAGTGAGATTCTGGAGGTGGCACTGGGGCTGGTCACCTGAGAGTCCCATCGCCTGC
AGCACCTGGAGACCCACCTCCCACCCAGTGCATCTTTTGGGCCACAGACATCATTGCTGTTCCCGTTACCTC
GAGCTGACTCTAGAGGGGAAGGCAGAGCTCAGGAGGGTGGGTGGGAGCTGCAGTGGCTCAGAGTCCAGCAATGA
GGCCCCCTGGCCTGGGCACCCAGCTGCAGGCCCTGCCCTACGTGCACTACAGGAAGGGGTGAGGAGAGCAGCCA
GAGGAAAACCAGCCCCAGAATGCTGCAACTTCTCTTCTCTCTGGACTTCGGTGTCTCGGCTCTGAAGGCGCTCT
CTGCACTTAGATGCTGTCAGCCCTCAACGTAGGAGGGGCGTGGGGTCCCTAAGTGATTCTTCTCCCTGGCAAGG
CTCTTCTTTTTCAGGGATATCTCTGCCAACCTTCCCTGTCTCGGTTGGGCTTGGCCCTCTCTGCTGAGAG
AGCTCAGCACACACAGCTCAGACCCACGGACAGGACCCCGGGACAGAACCCCGGGAGCACTGCCCTAGGAGCC
TGGACCCACAGAGCTCAGTCCCAGCTCTGCCTCTGACTCGCTGTGTACCCTCTGCCAAGTCATGCCATTCTCTA
GTTCTTGCAAACTGCAGTGTGTTGGACTAGAAACGTATTGGCCCCCTGCTAGCCCTGTGCTCCAGCTTCCAGCTGG
AGATGGCAGCCGTTATTTGCGGAGCCAGGCTGACTCCGGATTCAACGTGTCTGGGAGAGAAAAGCAGTATAGA
CTCCACCTTCCAGGATGTCCATTTCCGGGAGAGGAGCAGGTGGGACCCCTCAAGAAAATGACGGAGAACATCCCAG
ACAGATGGGACTCAAGCAGGATGGGTGCTATATCCAAGAAGCCAAGAAGGGAGAGTTTCGTGCACTGTGGTTAAC
AGGAGGGCCGCTGGAGGCAGTGGCTGAGCCAGAAAGTAACACAGAGCTCATGCTTGAGAGATAGAGTCTTGGC
CATGGCTTCTGCAAGACCACTGACGAGCAGTCCCATGGTGATAAAGGGCAGCCCGGCGGGTCCCAGCATCTCG
AGACCTCTGCAGAAGTATTATCAGAGTAGAGCTGACTTCCAGTACCCGGGCAGCCAGCTCTGTCTCCAGGGAGG
CCTGGCCTGGAGGAGGAGTCCACTAACAGGAAACACTTCTCACCCCTCACACAGGCCAGGGGAGCCCTGGAG
GGAAATTCCTTGGCAGGGGAACAGGAAATGTGGTGCCTCTGCCCACTGCCAGCTGAGTGGGCAAGGAAGCAG
GTGGATCCCCCAGAAGGAACCGCAGCTCGGAGGCACCTCTCTCGTCCCCACCCACCCACATTTGCACACCT
TCCACAGGGTCAGGATGGAGTAGCTGCCTTGCAGGTGGTGAGACTCCTGTCTCTGGAGGTCTGCAAGCACTGGT
AGTGATATTGCAGCAGACAAGGTCTGGGTGGGCGTCTGCAGGAGGAGACCTTGTGGGACATCTGAGGACATCCG
CAGATTCTTGTGACCTGTGAACTAGGCCCTGCCTCTGTACCTCATTGGTCCATGAAGGAGCAGCCAGGGGTGG
TGAAGGAGCACTGGGCTAGGGGTAGGGGTGAGAGATTCTGTCTGCTCCTGGGATGCACTGGCTACTCCCTTA
GTCTACTCCCTTCCCTCTCTGTCCTCAGCTTCTCCATCATGGAGGAGATGGGATCATGGATTTTCTGGGCAT
AAGTGGCTGTTCTGGGAGTCATTCCAAAGAGAGAATAAACTCCTGATCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 924

MDLCHPEPAELSSGETEELQRIKWHRKQLLEDIQKLKDEIADVFAQIDCFESAEESRMAQKEKELCIGRKKFNMD
PAKGIQYFIEHKLLTPDVQDIAREFLYKGEGLNKTAIGTYLGERDPINLQVLQAFVDCHEFANLNLVQALRQFLWS
FRLPGEAQKIDRMMEAFATRYCLCNPGVFQSTDTCYVLSFSIIMLNTSLHNPVNRDRPPFERFVSMNRGINNGSD
LPEDQLRNLFDSIKSEPFSSIPEDDGNDLTHTFFNPDREGWLLKLGGRVKTKRRWFILTDNCLYYFEFTTDKEPR
GIIPLENLSVQKVDDPKKPFCELELYNPFSCRGQKIKACKTDGDGRVVEGKHESYRISATSAEERDQWIESIRASIT
RVFFYDLVSTRKKKIASKQ

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FIGURE 925

CCGGTCGGATGCCGGACCGGGGGCACCGCTGAGGCGGTGGGTCCCCGACCTGCGAGACAGGTTTGAAGCCCCCG
CTGCGCCAGTCCGTGCGGACCGCGAGGCCGCGGGCGGGTGGAGGCGCGTCTCCGGCACGATGAAGGATTGGGG
GCAGAGCACTTGGCAGGTCATGAAGGGGTCCAACCTTCTCGGGTTGTTGAACGCTACCTGGAACAAGAAGAGAGA
TTCCAACCTCGAGAAAAAGGGCTGAGTTTGATTGAGGCTACCCCGGAGAATGATAACACTTTGTGTCCAGGATTG
AGAAATGCCAAAGTTGAAGATTTAAGGAGTTTAGCCAACCTTTTGGATCTTGCACTGAAACTTTGTCTGGCT
GTCAATATTTTGGACAGGTTCTGGCTCTTATGAAGGTGAAACCTAAACATTTGTCTTGCACTGGAGTCTGTTCT
TTTTTGCTGGCTGCTAGAATAGTTGAAGAAGACTGCAATATCCATCCACTCATGATGTGATCCGGATTAGTCAG
TGTAATGTACTGCTTCTGACATAAACGGATGGAATAAATTCAGAAAAATTGCACTATGAATTGGAAGCT
ACTACTGCCTTAAACCTTTTGCACCTTATACCATACTATTATACTTTGTCATACTTCAGAAAGGAAAGAAATACTG
AGCCTTGATAAACTAGAAGCTCAGCTGAAAGCTTGAACCTGCCGACTCATCTTTCAAAGCAAACCATCTGTA
TTAGCCTTGTGCCTTCTCAATTTGGAAGTGGAACCTTTGAAATCTGTTGAATTACTGGAATTTCTTTGCTAGTT
AAAAACATTCCAAGATTAATGACACTGAGTTCTTCTACTGGAGAGAGTTGGTTTCTAAATGCCTAGCCGAGTAT
TCTTCTCCTGAATGTTGCAAACAGATCTTAAGAAGTTGGTTTGGATCGTTTCAAGGCGCACAGCCAGAACCTC
CACAACAGCTACTATAGTGTCTCTGAGCTGCCAACGATACCTGAGGGGGTGTGTTTGTGAAAGTGAAAGTGAG
GACTCTTGTGAAGATATGAGTTGTGGAGAGGAGAGTCTCAGCAGCTCTCCTCCAGTGATCAAGAGTGACCTTC
TTTTTCAACTTCAAAGTGGCACAACACTGTGCTTTCCATCTTAGAAATCTGATTGTTCTGTCAGAAATTTATATT
TACAGGGTTTCAAAGCAATAAATGGGGGAATAGGTAGTTTCTGGTTTAGCCCCATCTAGTCAGGAATTAATAT
ACTGGAATACCTACCTTCTATTTGTTATTTCAGATCAGATCTGGCCTATTTTCATATTTATCCTAAGCCATCAAAT
GGGGTAGTGCTCTTAAACCATTAACAGTACTTTAGACATTGGCACCTTTATTTTCTCGTAGATCTTTAGCTACT
TTGGGGAGGAGGGAAGGTGCTGATACCTTCAATTTGTTACTTTTCAAGATTTTAAAAATAACTAGTGTAGCTTA
TCTTAAACATTTTATAAAACCTTCAGATGTCTTTAAGCAGATTGGAAGTATGCAAGTGCTTCCCTAGCAGGGACA
GTGGATAATCCCTAATGGTTTATCATAGATTTACCCCTCCCCCTTCTCAGAAAGAGTGAGTATGCTCTTAAATGT
CAAACACATTTTGTGTTTTGTTTTTAAATGATCAGTGTCTATTTGATGTGATGCAGATCTTATAAATTTGGG
AATTATAATATTGACATTTCTGTGATTTTATATATGTAATGTCTTAATTGAGATTTGTGTTAAGGCAGAAATAA
TTAGGCTAGGGCTCTTAGTTTTCATTCTTATTGCCCAAGTATTGTCAAACATATGGTATTATTTAATGTTACTT
TAAAAATCCATAATCTGCTAGTTTGCATGTACTTATATGAAAACAGTGCAGTAAGTTGAAAACCTCAGTATCTAT
GGAATTGATAAATGTTGATCTGGTGTAGTATATTTATCCGCATTTTCTTATATTAATAAATGTTCTGCATGATT
ACATTTTATTTGCCTTTGT

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FIGURE 926

MKDLGAEHLAGHEGVQLLGLLNVYLEQEERFQPREKGLSLIEATPENDNTLCPGLRNAKVEDLRSLANFFGSCTE
TFVLAVNILDREFLALMKVKPKHLSCIGVCSFLLAARIVEEDCNIPSTHDVIRISQCKCTASDIKMEKIISEKLH
YELEATTALNFLHLYHTIILCHTSEKILSLDKLEAQLKACNCRLIFSKAKPSVLALCLLNLEVETLKSVELLE
ILLLVKKHSKINDTEFFYWRELVSKCLAEYSSPECCKPDLKKLVWIVSRRTAQNHLNSYYSVPELPTIPEGGCFD
ESESEDSCEDMSCGEESLSSSPSDQECTFFNFKVAQTLCFPS

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FIGURE 927

CGCAGGCAGGGATACAGTTCCTGCAAGGGGTCCCGGGGGGCGCGGGAGGCGCAGGACGCTAGGCTCTGCCGTCAG
CCCGCAACAGCGCTCAGTCCAGGGAGGGAGGCCCGGGTGGGGGGCAGCCGTAAGCCCCGCTCAGCGTGCAGCCA
CCGGGGACTTGCGCGGCCGTGGCACCGCTGGAGGGGGCGGCCCTGGGGCTGGGGCTGCCCGGCGGCGCGCGACCG
CCTTCCTTCGCTGCGTCCCTGCCCCCCCCACGCCTCGCTCACCGCCGCGCTTCTCCCTGCCCCGCAGCGCGCAGG
GACCATGTCGGCGGAGACCGCGAGCGGGCCCCACAGAGGACCAGGTGGAAATCCTGGAGTACAACCTCAACAAGGT
CGACAAGCACCCGGATTCCACCACGCTGTGCCTCATCGCGGCCGAGGCAGGCCTTCCGAGGAGGAGACCCAGAA
ATGGTTTAAGCAGCGCCTGGCAAAGTGGCGGCGCTCAGAAGGCCTGCCCTCAGAGTGCAGATCCGTCACAGACTA
AGGAGATGGCAGGCATTGACAGCTTCACTCCATGAAGGCCATCTCTGTTTCTCTCCTCCGCTTAACCAAGCTGTT
GTGGTTTTTTCAGCATAGTGTGTATGTTCCATTGCTAGCTGTCTGCTGTTTAACACAGTGTGTATTTTTTTTC
TAAATGTACATAATTAGAAAAGAAAATAACAATAGGAAGCTATGTGTATCTTCTGTGTAAAGCAGTGGCTTCACT
GGAAAAATGGTGTGGCTAGCATTTCCTTTGAGTCATGATGACAGATGGTGTGAAAACCATCTAAGTTTGCTTTT
GACCATCACCTCCCAGTAGCAATTTGCTTTTCATAATCCATTTAGCAATCCAGGCCCTCTGTTGAAAAGATAATATG
AGGGAGAAGGGAACACATTTCTTCTGAACTTACTTCCCTAAGTCACTTTCCTTATGTATCATCTAATACAATGA
TGGTTGAGTGAAAATACAGAAGGGGTGTTTGAGTATTAGATTTCATAAAACACTTCCTTGGAATATAGCTGCAT
TAACTTGGAAGAAGCCTGTTGGGCCAGAAGACAGAACTCCAAGTGGCAAAAAAGCAAGCATCTAAGAAAAAAA
ACCACCAAAGTTCTTGAATTTACTATATTTAAATGCATTGGTTAAGTTTATTTTGCTAAATAAAGTGAAGTCTT
TTGTCTCTAAATGATATTCTAAATAAACCTTAAGTTTTTGTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 928

MSAETASGPTEDQVEILEYNFNKVDKHPDSTTLCLIAAEAGLSEEETQKWFQRLAKWRRSEGLPSECRSVTD

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FIGURE 929

CACCTCGCTGCTCCAGCCTCTGGGGCGCATTCCAACCTTCCAGCCTGCGACCTGCGGAGAAAAAAATTACTTAT
TTTCTTGCCCCATACATACCTTGAGGCGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCCAG
GCTGGTCAGTGTGGCAACCAGATCGGTGCCAAGTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCACC
GGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCTGTGTACTACAATGAAGCCACAGGTGGCAAA
TATGTTCCCTCGTGCCATCCTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTGCTCAGGTCTTTTGGCCAG
ATCTTTAGACCAGACAACCTTTGTATTTGGTCAGTCTGGGGCAGGTAACAAGTGGGCCAAAGGCCACTACACAGAG
GGCGCCGAGCTGGTTGATTCTGCTTGGATGTGGTACGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCTTC
CAGCTGACCCACTCACTGGGCGGGGGCACAGGCTCTGGAATGGGCACTCTCCTTATCAGCAAGATCCGAGAAGAA
TACCTGATCGCATCATGAATACCTTCAGTGTGGTGCCTTCACCCAAAGTGTCTGACACCGTGGTCGAGCCCTAC
AATGCCACCTCTCCGTCCATCAGTTGGTAGAGAATACTGATGAGACCTATTGCATTGACAACGAGGCCCTCTAT
GATATCTGCTTCCGCACCTCTGAAGCTGACCACACCAACCTACGGGGATCTGAACACCTTGTCTCAGCCACCATG
AGTGGTGTACACACCTGCCTCCGTTTCCCTGGCCAGCTCAATGCTGACCTCCGCAAGTTGGCAGTCAACATGGTC
CCCTTCCACGCTCCATTTCTTTATGCCTGGCTTTGCCCCCTCTCACCAGCCGTGGAAGCCAGCAGTATCGAGCT
CTCAGAGTCCCGAACTCACCAGCAGGTCTTCGATGCCAAGAACATGATGGCTGCCTGTGACCCCGCCACGGC
CGATACCTCACCCTGGCTGCTGTCTCCGTGGTCCGATGTCCATGAAGGAGGTGATGAGCAGATGCTTAACGTG
CAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAATGTCAAGACAGCCGTCTGTGACATCCCACCT
CGTGGCCTCAAGATGGCAGTCACCTTCATTGGCAATAGCACAGCCATCCAGGAGCTTTCAGCGCATCTCGGAG
CAGTTCACTGCCATGTTCCGCCGAAGGCCTTCTCCACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTC
ACCGAGGCTGAGAGCAACATGAACACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAG
GAGGATTTCCGTGAGGAGGCCGAAGAGGAGGCCTAAGGCCAGAGCCCCATCACCTCAGGCTTCTCAGTTCCCTTA
GCCGTCTTACTCAACTGCCCTTTTCTCTCCCTCAGAATTTGTGTTTGTGCTGCCTCTATCTTGTTTTTTGTTTTTT
CTTCTGGGGGGGGTCTAGAACAGTGCCTGGCACATAGTAGGCGCTCAATAAATACTTGTGTTTGTGAAATGTCTCCT
CTCTCTTTCCACTCTGGGAAACCTAGGTTTCTGCCATTCTGGGTGACCCTGTATTTCTTTCTGGTGCCCATTTCCA
TTTGTCCAGTTAATACTTCTCTTAAAAATCTCCAAGAAGCTGGGTCTCCAGATCCCATTAGAACCAACCAGGT
GCTGAAAACACATGTAGATAATGGCCATCATCTTAAGCCCAAAGTAGAAAATGGTAGAAGGTAGTGGGTAGAAGT
CACTATATAAGGAAGGGGATGGGATTTTCCATTCTAAAAGTTTGGAGAGGGAAATCCAGGCTATTAAAGTCACT
AAATTTCTAAGTATGTCCATTTCCCATCTCAGCTTCAAGGGAGGTGTCAGCAGTATTATCTCCACTTTCAATCTC
CCTCCAAGCTCTACTCTGGAGGAGTCTGTCCACTCTGTCAAGTGGAAATCCTTCCCTTTCCAACCTCTACCTCCCT
CACTCAGCTCCTTTCCCTGATCAGAGAAAGGATCAAGGGGGTGGGAGGGGGGAAAGAGACCAGCCTTGGTCC
CTAAGCCTCCAGAAACGTCTTCTTAATCCCCACCTTTTCTTACTCCCCAAAAAAGATGAACACCCCTGACTCTGG
AGTGGTGTATACTGCCACATCAGTGTGAGTCACTCCAGAGGAGAGGGGAACCCCTCCTCATCTTTTTTGCA
ACATCTCATTTCTTCTTTTGTGTTGCTTCCCCCTCACACACTTGGTTTTGTTCTATCCTACATTTGAGATTT
CTATTTTATGTTGAACCTGCTGCTTTTTTTCATATTGAAAAGATGACATCGCCCCAAGAGCCAAAAATAAATGGG
AATTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 930

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSLQLDRLSVYYNEATGGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLOGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPGQLNADLRKLAVNMVFFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQVFDKNNM
AACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATAEEEEDFGEEAEAEA

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FIGURE 931

GAATTGAACCAACCCATTTTCCTTTCTTAGCCAAATCACCAAAATGTCCAGTTAGAACAAGAATTTAGCATTCTGC
AAAAGAAGTTAACAGCTGAGATAACGAGGAAATATTCTGAAATGGATCCCAAATATTTTCATCTTAATTTTGT
GTGGACACCTGAACAATACATTTTTTTCAAAGACAGAGACAATTACAACAGAGAAGCAGTCACAGCCTACCTTAT
TCACATCATCAATGTACAGGTATTGGCTAATTCTCAAAACACAACAGGGAATCCTTTGGGTCAACCAACACAAT
TCAGCGACACTTTTTCTGGACAATCAATATCACCTGCCAAAGTCACTGCTGGACAACCAACACCAGCTGTCTATA
CCTCTTCTGAAAAACCAGAAGCACATACTTCTGCTGGACAACCACTTGCCTACAACACCAACCAACCAACCA
TAGCCAACACCTCCTCCCAGCAAGCCGTGTTACCTCTGCCAGACAACCTACCATCTGCCCGTACTTCTACCACAC
AACCACCAAGTCAATTTGTCTATACTTTTACTCAACAATCATCATCTGTCCAGATCCCTTCTAGAAAAACAATAA
CTGTTTCATAATCCATCCACACAACCAACATCAACTGTCAAAAATTCACCTAGGAGTACACCAGGATTTATCTTAG
ATACTACCAGTAACAAACAAACCCCAACAAAAACAATTATAATTCAATAGCTGCCATACTAATTGGTGTACTTC
TGACTTCTATGTTGGTAGCTATAATCATCATTGTACTTTGGAAATGCTTAAGGAAACAGTTTTAAATGATCAAA
ATTGGGCAGGTAGATCTCCATTGCTGATGGAGAAACCCCTGACATTTGTATGGATAACATCAGAGAAAATGAAA
TATCCACAAAACGTACATCAATCATTTCACTTACACCTGGAAACCAAGCAAAAGCACACTTTTAGCAGATGACT
TAGAAATTAAGTTGTTTGAATCAAGTGAAACATTGAAGACTCCAACAACCCCAAAACAGAGAAAATAAAGATC
AAGTAAATGGTACATCAGAAGATAGTGCTGATGGTTCAACAGTTGGAAGTCTGTTTCTTCTCAGATGATGCAG
GTCTGCCTCCACCACCTCCCCTTCTGGATTGGGAAGGACAGGAAAGTAACCAATCTGACAAACCCACAATGACAA
TTGTATCTCCTCTTCCAAATGATTCTACTAGTCTCCCTCCATCTCTGGACTGTCTCAATCAAGACTGTGGAGATC
ATAAATCTGAGATAATACAATCATTTCCACCGCTTGACTCACTTAAGTGGCCCTGCCACCAGTAGATTTTATGA
AAAACCAAGAAGATTCCAACCTTGAGATCCAGTGTGAGGAGTTCTCTATTCTCCCAACTCTGATCAAGATCTTA
ATGAATCCCTGCCACCTCCACCTGCAGAACTGTTATAAATATTACAAGTGGCTTTTATAGCTGATCTCCATCCTC
AAATGACTCTTTTTCTTTATATGTTAACATATATAAATGGCAACTGATAGTCAATTTGATTTTATTCAGGA
ACTATCTGAAATCTGCTCAGAGCCTATGTGCATAGATGAACTTTTTTTAAAAAAGTTATTTAACAGTAATCT
ATTTACTAATTATAGTACCTATCTTTAAAGTATAGTACATTTTACATATGTAAATGGTATGTTTCAATAATTTAA
GAACTCTGAAACAATCTACATATACTTATTACCCAGTACAGTTTTTTTTCCCTGAAAAGCTGTGTATAAAATTA
TGGTGAATAAACTTTTATGTTTCCATTTCAAAGACCAGGTGGAGAGGAATAAGAGACTAAGTATATGCTTCAAG
TTTTAAATTAATACCTCAAGTATTAAATAAATATCCAAGTTTGTGGGAATGGGAGATTAAATGCATGTTTGAG
AGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 932

MDPKYFILILFCGHLNNTFFSKTETITTEKQSQPTLFTSSMSQVLANSQNTTGNPLGQPTQFSDTFSGQSISPAK
VTAGQTPAVYTSSEKPEAHTSAGQPLAYNTKQPTPIANTSSQQAVFTSARQLPSARTSTTQPPKSFVYTFTQQS
SSVQIPSRKQITVHNPSTQPTSTVKNSPRSTPGFILDTTSNKQTPQKNNYNSIAAILIGVLLTSM LV A I I I I V L W
KCLRPV L N D Q N W A G R S P F A D G E T P D I C M D N I R E N E I S T K R T S I I S L T P W K P S K S T L L A D D L E I K L F E S S E N I E D
S N N P K T E I K D Q V N G T S E D S A D G S T V G T A V S S S D D A G L P P P P L L D L E G Q E S N Q S D K P T M T I V S P L P N D S T S L P P
S L D C L N Q D C G D H K S E I I Q S F P P L D S L N L P L P P V D F M K N Q E D S N L E I Q C Q E F S I P P N S D Q D L N E S L P P P P A E L L

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FIGURE 933A

AGTTTCCGGGCCCCGGGCTGCTCTCGGAGCCATGAGCTGCGGCCGCCCCCTCCCGACGTGGACGGCATGATCACC
CTCAAGGTGGACAACCTGACCTACCGCACCTCTCCCGACAGCTTGAGGCGCGTGTTCGAGAAGTACGGGCGCGTG
GGCGACGTGTACATCCCGGGGAGCCCCACACCAAGGCGCCCCGGGGCTTCGCTTTTCGTCGGCTTTCACGACCGG
CGCGACGCCCCAAGACGCCGAGGCCGCCATGGACGGGGCGGAGCTGGACGGACGCGAGCTGCGGGTGCAGGTGGCG
CGCTATGGCCGCCGGGACCTGCCCCGACGCCAGGGAGAGCCACGCGGCAGGTCCAGAGGCGGCGGCTACGGA
CGGCGGAGCCGACGTACGGGCGGCGGAGCCGACGCCAGGCGGCGACACCGCAGCCGATCCCGGGTCCCAGC
TGCTCCAGGTCCCGCAGCCGATCTCGCTATAGGGTTCTCGCTATAGCCGGTCTCCCTACAGCCGATCTCCTTAC
AGCCGGTCGCGCTACAGCCGCTCTCCCTACAGCAGATCTCGCTACAGGGAATCTCGCTACGGCGGATCTCACTAC
AGCTCATCTGGTTACAGTAACTCTCGCTACAGCCGATATCACAGCAGCCGGTCTCACTCGAAGTCTGGGTCTCTCC
ACTAGCTCTCGCTCTGCATCAACCTCCAAATCGAGCTCTGCGCGACGATCCAAGTCTCTCTCGGTCTCCAGGTCT
CGCTCGCGGTCCAGGTCTTCATCTATGACCAGGAGTCTCCCCGGGTATCCAAGAGGAAATCCAAGTCAAGGTCTG
CGATCCAAGAGGCCCCCAAGTCTCTGAAGAGGAAGGACAGATGTCTCTTAAGAAAATGATGCATCAGGAAGC
AACGTGATGGAGGACTTGGGGGAAAAGGATCACATACTCAGTCTATGGAAGCAACGTCCCTGGAAGAAGAGGCTG
CCTATTGAAAAGGTTGTGTACACTTTTCTACCTTTTGGCAGTTTGAAGCTTGCATCAGGTGGCAAAATTCAT
TCTATGTCCGTTTTGTGTTATTACATTTTATTGTAAGTCTAGGAGGTGAACGACCTAAGATTACGTTATTGGG
TTTGGATATTGAGGCAAAAATTTATTTTTATTCTATAGTGATGACTGTTTTGGTTTGAATGAACAGATTGGT
AACCTAATTTGTGGCTCCTGACTTTTAAAGAAACGTGTGCAGCCATTACACACAGCCTAACGCTGTCAAGACAT
TGCTTCAACATTGCCTTCATTCTTAAACCTACAAAAGGTGGTGTAAATTAATATGGATAATTTTATTTACCT
CCAGGTCTAAAAGGTAGTGTGACCCAAATTTGTATAAGATTTTTCATGTGAAGGACTGGGGTTTTAGCAAACA
CAGGTCTAATCTCTTTGTGTTTTGTGTCACCAGGCCCGGTGCGTAGCAGTTGAGTGATGCTGGTTAGCTATTA
AGGTGGCCTGTGTCAGTGCAGAGTGTGAGCTGCTTCTGTTTTCTTCTGATTGCTCCTGGGGAAAAACAGCCTT
GTCTGAAGAACAAATGGCTGTCCAGTTTATTAATATGCCTGTCAACTGCACTTCCAGTCAACCAGGCCCTTGCAG
ATAAATAATGGAGCATGCAGTGAGCACATCTAGCTGACGATAATCACACCTTTTCCCCCGTCTTTTCTGAAAAAT
TGTAATCTGATCATATCAACATGTATGAACTTAAATATGGAGAATGTTATGGAAGAAATAGTTTATAAGTTTG
TTAAGTACTTATAACATGGTTTTATCTTTTTGATTATTAATTTTTTACGCTAACCATTTGTTTCTGTAGTTAAAT
GTTTTCTTGGTGTATCTTTTTCTCAGAATAAAATTAGAACTTTTGATGGAAGTAGGTTGTTTTATTTTCTGTA
TGACTTTTGAATAATTTGTACTTTTGAGAAAATTATTAGCACCAAGTGTCTCTCAAAATATAATTTTTAAAAATC
CTTAAAAAATAAAAAAAAAAACTCGAGACTAGTTCTCTCTCTCCCAAGGAGAAGCAGAGGATCACCACGCTATT
TCCCCGTCATAGCAGATCTCGCTCTCGTACATAAGATGATTGGTGACACTTTTTGTAGAACCCATGTTGTATACA
GTTTTCTTTTATTACGTACAATCTTTTCATTTTTTAATTCAAACGTGTTTGTTCAGAATGGGCTAAAGTGTGAA
TTGCATTCTTGTAAATATCCCCTGCTCCTAACATCTACATTCCTTCGTGCTTTTGATAAATTGTATTTAAGTG
ATGTCATAGACAGGATTGTTTAAATTTAGTTAACTCCATCTCTCAGACTGTGATATTGTGTAAATGTCTATCT
GCCCTGGTTTGTGTGAACGTGGGATGTTGGGGGTGTTGTGTTATCTTACCTGGGGAAGTTCTTATGTTTATCTT
GCTTTTCATGTGCTTTCTGTAGACATACTGAAGAGATGGATTAAGAATGCTTTGGATTAAGGATTGTGGAGCA
CATTTCAATCATTTTAGGATTGTCAAAGGAGGATTGAGGAGGATCAGATCAATAATGGAGGCAATGGTATGACT
CCAAGTGCTATTGTACAGATGAAATTTGGCAGTATTGACCTTATACTAAAAGGCAGGGGTAAAAATGATTATAT
ACATTTTCTTAAACACTTGCAACATTTTATTCAGTTGCTTTAGCTACAATTGCTTTGCTTTTTAAACCTTG
GCAATTGTGGCAAAATTATATTGCCCATTTTGTAGCAACTTATTTGTCTCCCTTCCCCCATTTTTGTTTTAATA
GGGACTAATGTGGGAAGAACTGGCTAATTTGTACAGTGCTTAGTTACAACGTGTTAATGTGTGACCTGCTGTGG
TGACATGTGGGTACAGGGTGTTTTTAAATCCAACAAGATAGAGTATAATATCAATACTGCTAAATCTGCATGTC
CTCTGTGTGACTGATAGAGCGTTGCTATTTCATTTTTAAAGACAAAATGAAAGCAAAATATAGAGTTCCAATGT
ATTGGTGTAGATAATCTAGTTGGGAATACTTTTAAAGTCTCACCTTCCCTTTAAACTAATATTCAATTTGGTTC
ATATGTTTAAAGACTTTAATTTACAAATTAATTTGCAATGGGAGCATTAGATTAGTTTATAGACTTAGGTGGG
TAGCAATGCCAGTAACTTAAATTACGTAACCTTCTGCAACCACGAAACCTGTAATACGCTGTACAGTAACAAGT
GTTGGCATTATCAGTTGAACGTGAAATACAAATGCTTCTTCCAATTAGTCTCTATGATGATTAGTTTCTAAAA
TTTATCTGAACACCATTCAAGAACTTGTTTGGGGAATTTGATAGTTATTGATGTGCATCTGTTAAACTGATGAC
AGACATAACTCATCTCCCGAGAACTTTTTGATTACAGTATCTAACATTTTGCTCCTCTTTTTTGTTTTT
GCTGGTTATAAAGGTTTGGATTGGAGAGGGCTCACTGGATCCCAATCCTTGGAGCTGGATCATTGGATTCAAATC

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FIGURE 933B

ATAATGTGGATAGGATAGGGAGGATGAATTACCAGGATTCATGGAGCGGGATCAGATTACCAGGAACATAGGAGT
GGATTCCTGCCCCAACCAACCGCATTTCGTGTGGATTTTTTTATTCAACTTAATTGGCTATTCCAAAGATTTTTT
TTTTCCTATTTTGTACGATTGGAGCCCTTAAGATGCACGATGGAATTGTGTTTTGCGTTTTTTGGTAAAAGGAGC
AAAGCGAGGACCTGGAGATAAACGCTGGAGCAATCTCCTTGAAGGATTCAGCACGAGTAGATGGTAAACATTTA
AAGGGGAAAGGGGGGGTTTTGTTAAAATAGTAAATCAGTAAGTCACCTCTAAATTTAAAGAAAACAAAATTGGAG
TTGAAGAATAAGTAGGTTTCCAATTGGCTATTGCCCCTTTTTTTTGAAAAATAAACATTTTTTTAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 934

MSCGRPPPDVDGMITLKVDNLTIRTSPDSLRRVFEKYGRVGDVYIPREPHTKAPRGFAFVRFHRRDAQDAEAAM
DGAELDGRELRVQVARYGRRDLPRSRQGEPRGRSRGGGYGRRSRSYGRRSRSPRRRHSRSRGPSCSRSRSRRY
RGSRYSRSPYSRSPYSRYSRSPYSRYSRYESRYGGSHYSSSGYSNSRYSRYHSSRSHSKSGSSTSSRSASTSK
SSSARRSKSSSVSRSRSRSRSSSMTRSPPRVSKRKSKSRSRSKRPPKSPEEEGQMSS

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FIGURE 935

GGCACGAGGGGAGTGGAAGTTCTCCGGCAGCCCTGAGATCTCAAGAGTGACATTTGTGAGACCAGCTAATTTGA
TTAAAATTCTCTTGGAATCAGCTTTGCTAGTATCATACCTGTGCCAGATTTCAATCATGGGAAACAGCTGTTACAA
CATAGTAGCCACTCTGTTGCTGGTCTCAACTTTGAGAGGACAAGATCATTGCAGGATCCTTGTAGTAAGTACCC
AGCTGGTACATTCTGTGATAATAACAGGAATCAGATTTGCAGTCCCTGTCTCCAAATAGTTTCTCCAGCGCAGG
TGGACAAAGGACCTGTGACATATGCAGGCAGTGTAAGGTGTTTTCAGGACCAGGAAGGAGTGTTCTCCACCAG
CAATGCAGAGTGTGACTGCACTCCAGGGTTTCACTGCCTGGGGGCAGGATGCAGCATGTGTGAACAGGATTGTAA
ACAAGGTCAAGAACTGACAAAAAAGGTTGTAAAGACTGTTGCTTTGGGACATTTAACGATCAGAAACGTGGCAT
CTGTGACCCCTGGACAACTGTTCTTTGGATGGAAAGTCTGTGCTTGTGAATGGGACGAAGGAGAGGGACGTGGT
CTGTGGACCATCTCCAGCCGACCTCTCTCCGGGAGCATCCTCTGTGACCCCGCCTGCCCTGCGAGAGAGCCAGG
ACACTCTCCGCAGATCATCTCTTCTTTCTTGCCTGACGTCGACTGCGTTGCTCTTCTGCTGTTCTTCTCTCAC
GCTCCGTTTCTCTGTTGTTAAACGGGGCAGAAAGAACTCCTGTATATATTCAAACAACCATTTATGAGACCAGT
ACAACTACTCAAGAGGAAGATGGCTGTAGCTGCCGATTTCCAGAAGAAGAAGAGGAGGATGTGAAGTGTGAAA
TGGAAGTCAATAGGGCTGTTGGGACTTTCTTGAAAAGAAGCAAGGAAATATGAGTCATCCGCTATCACAGCTTTC
AAAAGCAAGAACACCATCCTACATAATACCCAGGATTCCCCAACACACGTTCTTTCTAAATGCCAATGAGTTG
GCCTTTAAAAATGCACCACTTTTTTTTTTTTTTTTACAGGGTCTCACTCTGTACCCAGGCTGGAGTGCAGTGGC
ACCACCATGGCTCTCTGCAGCCTTGACCTCTGGGAGCTCAAGTGATCCTCCTGCCTCAGTCTCCTGAGTAGCTGG
AACTACAAGGAAGGGCCACCACACCTGACTAACITTTTTTGTGTTTTGTTTGGTAAAGATGGCATTTCACCATGTT
GTACAGGCTGGTCTCAAACCTCCTAGGTTCACTTTGGCCTCCCAAAGTGCTGGGATTACAGACATGAAGTCCAGG
CCCGGCCAAAATAATGCACCACTTTTAACAGAACAGACAGATGAGGACAGAGCTGGTGATAAAAAAAAAAAAAA
AAAGCATTTTCTAGATAACCACTTAACAGGTTTGAGCTAGTTTTTTTGAAATCCAAAGAAAATTATAGTTTAAATT
CAATTACATAGTCCAGTGGTCCAACTATAATTATAATCAAATCAATGCAGGTTTGTTTTTGGTGCTAATATGA
CATATGACAATAAGCCACGAGGTGCAGTAAGTACCCGACTAAAGTTTCCGTGGGTTCTGTGATGTAACACGACAT
GCTCCACCGTCAGGGGGGAGTATGAGCAGAGTGCCCTGAGTTTAGGGTCAAGGACAAAAACCTCAGGCCTGGAGG
AAGTTTTGGAAGAGTTCAAGTGTCTGTATATCCTATGGTCTTCTCCATCCTCACACCTTCTGCCTTTGTCTGCTC
TCCCTTTTAAGCCAGGTTACATTCTAAAAATTCTTAACTTTAAACATAATTTTTATACCAAAGCCAATAAATGA
ACTGCATATGAAA

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FIGURE 936

MGNSCYNIVATLLLVNFERTRSLQDPCSNCPAGTFCDNNRNQICSPCPPNSFSSAGGQRTCDICRQCKGVFRTR
KECSSTSNAECDCTPGFHC LGAGCSMCEQDCKQGQELTKKGCKDCCFGTFNDQKRGICRPWTNCSLDGKSVLVNG
TKERDVVCGPSPADLSPGASSVTPPAPAREPGHSPQIISFFLALTSTALLFLLEFLTLRF SVVKRGRKKLLYIFK
QPFMRPVQTTQEEDGCSCRFPEEEEGGCEL

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FIGURE 937A

ATGGCTGGCGGAGCCTGGGGCCGCTGGCCTGTTACTTGGAGTTCTCTGAAGAAGGAGGAGCTGAAGGAGTTCAG
CTTCTGCTCGCCAATAAAGCGCACTCCAGGAGCTCTTCGGGTGAGACACCCGCTCAGCCAGAGAAGACGAGTGGC
ATGGAGGTGGCCTCGTACCTGGTGGCTCAGTATGGGGAGCAGCGGGCCTGGGACCTAGCCCTCCATACCTGGGAG
CAGATGGGGCTGAGGTCACTGTGCGCCCAAGCCCAGGAAGGGGAGGCCACTCTCCCTCATTCCCCTACAGCCCA
AGTGAACCCACCTGGGGTCTCCAGCCAACCCACCTCCACCGCAGTGCTAATGCCCTGGATCCATGAATTGCCG
GCGGGGTGCACCCAGGGCTCAGAGAGAAGGGTTTTGAGACAGCTGCCTGACACATCTGGACGCCGCTGGAGAGAA
ATCTCTGCCTCACTCTCTACCAAGCTCTTCCAAGCTCCCAGACCATGAGTCTCCAAGCCAGGAGTCAACCAAC
GCCCCACATCCACAGCAGTGCTGGGGAGCTGGGGATCCCACCTCAGCCAGCCTAGCACCCAGAGAGCAGGAG
GCTCCTGGGACCCAATGGCCTCTGGATGAAACGTGAGGAATTTACTACACAGAAATCAGAGAAAGAGAGAGAGAG
AAATCAGAGAAAGGCAGGCCCCCATGGGCAGCGGTGGTAGGAACGCCCCACAGGCGCACACCAGCCTACAGCCC
CACCACCACCATGGGAGCCTCTGTGAGAGAGAGCCTCTGTTCCACATGGCCCTGGAAAAATGAGGATTTTAAC
CAAAAATTCACACAGCTGCTACTTCTACAAAGACCTCACCCAGAAGCCAAGATCCCCTGGTCAAGAGAAGCTGG
CCTGATTATGTGGAGGAGAATCGAGGACATTTAATTGAGATCAGAGACTTATTTGGCCAGGCCTGGATACCCAA
GAACCTCGCATAGTCATACTGCAGGGGGTCTGGAATTGGGAAGTCAACACTGGCCAGGCAGGTGAAGGAAGCC
TGGGGGAGAGGCCAGCTGTATGGGGACCGTTCCAGCATGTCTTCTACTTCAGCTGCAGAGAGCTGGCCAGTCC
AAGGTGGTGAGTCTCGCTGAGCTCATCGGAAAAGATGGGACAGCCACTCCGGCTCCCATAGACAGATCCTGTCT
AGGCCAGAGCGGCTGCTCTTCATCCTCGATGGTGTAGATGAGCCAGGATGGGTCTTGCAGGAGCCGAGTTCTGAG
CTCTGTCTGCACTGGAGCCAGCCACAGCCGGCGGATGCACTGCTGGGCAGTTTGCTGGGGAAAACTATACTTCCC
GAGGCATCCTTCTGTATCAGGCTCGGACCACAGCTCTGCAGAACCTCATTCTTCTTTGGAGCAGGCACGTTGG
GTAGAGGTCTGGGGTTCTCTGAGTCCAGCAGGAAGGAATATTCTACAGATATTTACAGATGAAAGGCAAGCA
ATTAGAGCCTTTAGGTTGGTCAAATCAAACAAAGAGCTCTGGGCCCTGTGTCTTGTGCCCTGGGTGCTCTGGCTG
GCCTGCACCTTGCTGTATGCAGCAGATGAAGCGGAAGGAAAACTCACACTGACTTCCAAGACCACCACAACCCCTC
TGCTACATTACCTTGCCAGGCTCTCCAAGCTCAGCCATTGGGACCCAGCTCAGAGACCTCTGCTCTCTGGCT
GCTGAGGGCATCTGGCAAAAAAGACCCTTTTTCAGTCCAGATGACCTCAGGAAGCATGGGTAGATGGGGCCATC
ATCTCCACCTTCTTGAAGATGGGTATTCTTCAAGAGCACCCCATCCCTCTGAGCTACAGCTTCATTCACTCTGT
TTCCAAGAGTTCTTTGAGCAATGTCTATGTCTTGGAGGATGAGAAGGGGAGAGGTAAACATTCTAATTGCATC
ATAGATTTGGAAAAGACGCTAGAAGCATATGGAATACATGGCCTGTTTGGGGCATCAACCACAGTTTCTATTG
GGCCTGTTAAGTGATGAGGGGGAGAGAGATGGAGAACATCTTCACTGCCGGCTGTCTCAGGGGAGGAACCTG
ATGCAGTGGGTCCCGTCCCTGCAGCTGCTGCTGCAGCCACACTCTCTGGAGTCCCTCCACTGCTTGTACGAGACT
CGGAACAAAACGTTCTTGACACAAGTGATGGCCCATTTGGAAGAAATGGGCATGTGTGTAGAAACAGACATGGAG
CTCTTAGTGTGCACTTTCTGCATTAAATTCAGCCGCCACGTGAAGAAGCTTCAGCTGATTGAGGGCAGGCAGCAC
AGATCAACATGGAGCCCCACCATGGTAGTCTGTTTCAGGTGGGTCCAGTCAAGATGCCTATTGGCAGATTCTC
TTCTCCGTCTCAAGGTCAACAGAAACCTGAAGGAGCTGGACCTAAGTGGAACTCGCTGAGCCACTCTGCAGTG
AAGAGTCTTTGTAAGACCCTGAGACGCCCTCGCTGCCTCCTGGAGACCCTGCGGTTGGCTGGCTGTGGCCTCACA
GCTGAGGACTGCAAGGACCTTGCCCTTGGGCTGAGAGCCAACCAGACCCTGACCAGCTGGACCTGAGCTTCAAT
GTGCTCACGGATGCTGGAGCCAAACACCTTTGCCAGAGACTGAGACAGCCGAGCTGCAAGCTACAGCGACTGCAG
CTGGTCACTGTGGCCTCACGTCTGACTGCTGCCAGGACCTGGCCTCTGTGCTTAGTGCCAGCCCCAGCCTGAAG
GAGCTAGACCTGCAGCAGAAACCTGGATGACGTTGGCGTGCGACTGCTCTGTGAGGGGCTCAGGCATCCTGCC
TGCAAACTCATACGCCTGGGGCTGGACCAGACAACTCTGAGTGATGAGATGAGGCAGGAACCTGAGGGCCCTGGAG
CAGGAGAAACCTCAGCTGCTCATCTTCAGCAGACGGAACCAAGTGTGATGACCCCTACTGAGGGCCTGGATACG
GGAGAGATGAGTAATAGCACATCTCACTCAAGCGGCAGAGACTCGGATCAGAGAGGGCGGCTTCCCATGTTGCT
CAGGCTAATCTCAAACCTTGACGTGAGCAAGATCTTCCAATTGCTGAGATTGCAGAGGAAAGCTCCCCAGAG
GTAGTACCGGTGGAACCTTGTGCGTGCCCTTCTCCTGCCTCTCAAGGGGACCTGCATACGAAGCCTTTGGGGACT
GACGATGACTTCTGGGGCCCCACGGGGCCTGTGGCTACTGAGGTAGTTGACAAAGAAAAGAACTTGTACCGAGTT
CACTTCCCTGTAGCTGGCTCCTACCGCTGGCCCAACACGGGTCTCTGCTTTGTGATGAGAGAAGCGGTGACCGTT
GAGATTGAATCTGTGTGTGGGACAGTTCCCTGGGTGAGATCAACCCACAGCACAGTGGATGGTGGCAGGGCCT
CTGCTGGACATCAAGGCTGAGCCTGGAGCTGTGGAAGCTGTGCACCTCCCTCACTTTGTGGCTCTCCAAGGGGGC
CATGTGGACACATCCCTGTTCCAATGGCCCACTTTAAAGAGGAGGGGATGCTCCTGGAGAAGCCAGCCAGGGTG

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FIGURE 937B

GAGCTGCATCACATAGTTCTGGAAAACCCAGCTTCTCCCCCTTGGGAGTCCTCCTGAAAATGATCCATAATGCC
CTGCGCTTCATTCCCGTCACCTCTGTGGTGTGCTTTACCACCGCGTCCATCCTGAGGAAGTCACCTTCCACCTC
TACCTGATCCCAAGTGACTGCTCCATTTCGGAAGGCCATAGATGATCTAGAAATGAAATTCCAGTTTGTGCGAATC
CACAAGCCACCCCGCTGACCCCACTTTATATGGGCTGTGCTTACACTGTGTCTGGGTCTGGTTCAGGGATGCTG
GAAATACTCCCCAAGGAACGGAGCTCTGCTATCGAAGCCCTGGAGAAGACCAGCTGTTCTCGGAGTTCTACGTT
GGCCACTTGGGATCAGGGATCAGGCTGCAAGTGAAAGACAAGAAAGATGAGACTCTGGTGTGGGAGGCCTTGGTG
AAACCAGGAGATCTCATGCCTGCAACTACTCTGATCCCTCCAGCCCGCATAGCCGTACCTTCACCTCTGGATGCC
CCGCAGTTGCTGCACCTTTGTGGACCAGTATCGAGAGCAGCTGATAGCCCGAGTGACATCGGTGGAGGTTGTCTTG
GACAAACTGCATGGACAGGTGCTGAGCCAGGAGCAGTACGAGAGGGTGCTGGCTGAGAACACGAGGCCAGCCAG
ATGCGGAAGCTGTTAGCTTGAGCCAGTCCTGGGACCGGAAGTGCAAAGATGGACTCTACCAAGCCCTGAAGGAG
ACCCATCCTCACCTCATTATGGAACCTCTGGGAGAAGGGCAGCAAAAAGGGACTCCTGCCACTCAGCAGCTTGAAGT
ATCAACACCAGCCCTTGACCCTTGAGTCCTGGCTTTGGCTGACCCTTCTTTGGGTCTCAGTTTCTTCTCTGCAA
ACAAGTTGCCATCTGGTTTGCCTTCCAGCACTAAAGTAATGGAACCTTGATGATGCCTTTGCTGGGCATTATGTG
TCCATGCCAGGGATGCCACAGGGGGCCCCAGTCCAGGTGGCCTAACAGCATCTCAGGGAATGTCCATCTGGAGCT
GGCAAGACCCCTGCAGACCTCATAGAGCCTCATCTGGTGGCCACAGCAGCCAAGCCTAGAGCCCTCCGGATCCCA
TCCAGGCGCAAAGAGGAATAGGAGGGACATGGAACCATTTGCCTCTGGCTGTGTACAGGGTGAGCCCCAAAATT
GGGGTTTACGCTGGGAGGCCACGTGGATTCTTGGCTTTGTACAGGAAGATCTACAAGAGCAAGCCAACAGAGTAA
AGTGAAGGAAGTTTATTTCAGAAAATAAAGGAGTATCAGAGCTCTTTTAGAATTTGTCTAGCAGGCTTTCCAGTT
TTTACCAGAAAACCCCTATAAATTAAAAATTTTTTACTTAAATTTAAGAATTAATAAAAAATACAAAAAAGAAAAA
TGAAAATAAAGGAATAAGAAGTTACCTACTCCAAAAA

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FIGURE 938

MAGGAWGRLACYLEFLKKEELKEFQLLLANKAHSRSSSGETPAQPEKTSMEVASYLVAQYGEQRAWDLALHTWE
QMGLRSLCAQAQEGAGHSPSPFPYSPSEPHLGSPSQPTSTAVLMPWIHELPAGCTQGSERRVLRQLPDTSGRRWRE
ISASLLYQALPSSPDHESPSQESPNAPTSTAVLGSWGSPQPQSLAPREQEAPGTQWPLDETSGIYYTEIRERERE
KSEKGRPPWAAVVGTPPQAHTSLQPHHPWEPVRESLCTWPKNEDFNQKFTQLLLLQRPHPRSQDPLVKRSW
PDYVEENRGHLIEIRDLFPGPLDTQEPRIVILQGAAGIGKSTLARQVKEAWGRGQLYGDRFQHVYFSCRELAQS
KVVSLAELIGKDGATPAPIRQILSRPERLLFILDGVDEPGWVLQEPSSSELCLHWSQPQPADALLGSLLGKTILP
EASFLITARTTALQNLIPSLEQARWVEVLGFSESSRKEYFYRYFTDERQAIRAFRLVKSNNELWALCLVPWVSWL
ACTCLMQMKRKEKLTLSKTTTTLCLHYLAQALQAQPLGQLRDLCSLAAEGIWQKKTLSFPDDLKHKGLDGA
ISTFLKMGILQEHPILSYSFIHLCFQEFFAAMSYVLEDEKGRGKHSNCIIDLEKTLEAYGIHGLFGASTTRFLL
GLLSDEGEREMENIFHCRLSQGRNLMQWVPSLQLLLQPHSLESLSHCLYETRNTFTLTQVMAHFEEMGMCVETDME
LLVCTFCIKFSRHVKKLQLEGRQHRSTWSPMTMVLFRWVPVTDAYWQILFVSVLKVTRNLKELDLSGNSLSHSAV
KSLCKTLRRPRCLLETTLRLAGCGLTAEDCKDLAFGLRANQTLTDLDFNVLTADAGAKHLCQRLRQPSCKLQRLQ
LVSCGLTSDCCQDLASVLSASPSLKELDLQNNLDDVGVRLCEGLRHPACKLIRLGLDQTTLSDEMRQELRALE
QEKPQLLIFSRRKPSVMTPTGLDTGEMSNSTSSLRQRLGSERAASHVAQANLKLLDVSKIFFIAEIAEESSE
VVPVELLCVPSPASQDLHTKPLGTDDDFWGP TGPVATEVVDKEKNLYRVHFPVAGSYRWPNTGLCFVMREAVTV
EIEFCVWDQFLGEINPQHSWMVAGPLLDIKAEPGAVEAVHLPHFVALQGGHVDTSLFQMAHFKEEGMLLEKPARV
ELHHIVLENPSFSPLGVLLKMIHNALRFIPVTSVLLYHRVHPEEVTFHLYLIPSDCSIRKAIDDLKMFQFVRI
HKPPPLTPLYMGCRTVSGSGCMLEILPKELELCYRSPGEDQLFSEFYVGHLSGIRLQVKDKKDETIVWEALV
KPGDLMPATTLIPPARIAVPSPLDAPQLLHFVDQYREQLIARVTSVEVVLDKLGQVLSQEYQYERVLAENTRPSQ
MRKLFSLSQSWDRKCKDGLYQALKETHPHLIMELWEKGSKKGLLPLSS

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FIGURE 939A

ACAGCACAGACAGATTGACCTATTGGGGTGTTCGCGAGTGTGAGAGGGAAGCGCCGCGCCTGTATTTCTAGAC
CTGCCCTTCGCTGGTTCGTGGCGCCTTGTGACCCCGGGCCCTGCCGCTGCAAGTCGGAAATTGCGCTGTGCT
CCTGTGCTACGGCCTGTGGCTGGACTGCCTGCTGCTGCCAACTGGCTGGCAAGATGAAGCTCTCCCTGGTGGCC
GCGATGCTGCTGCTGCTCAGCGCGGCGCGGGCCGAGGAGGAGACAAGAAGGAGGACGTGGGCACGGTGGTGGC
ATCGACCTGGGGACCACCTACTCTGCTGCGCTGTTCAAGAACGGCCGCTGGAGATCATCGCCAACGATCAG
GGCAACCGCATCAGCCGCTCTATGTCGCTTCACTCCTGAAGGGGAACGTCTGATTGGCGATGCCGCCAAGAAC
CAGCTCACCTCCAACCCCGAGAACACGGTCTTTGACGCCAAGCGGCTCATCGGCCGACGTGGAATGACCCGTCT
GTGACGAGGACATCAAGTTCTTGGCGTTCAAGGTGGTTGAAAAGAACTAAACCATACATTCAAGTTGATATT
GGAGGTGGGCAAACAAAGACATTTGCTCCTGAAGAAATTTCTGCCATGGTTCTCACTAAATGAAAGAAACCGCT
GAGGCTTATTTGGGAAAGAAGGTTACCCATGCAGTTGTTACTGTACCAGCCTATTTAATGATGCCAACGCCAA
GCAACCAAAGACGCTGGAATATTGCTGGCCTAAATGTTATGAGGATCATCAACGAGCCTACGGCAGCTGCTATT
GCTTATGGCCTGGATAAGAGGGAGGGGAGAAGAACATCCTGGTGTGTTGACCTGGGTGGCGGAACCTTCGATGTG
TCTCTTCTCACCATTGACAATGGTGTCTTGAAGTTGTGGCCACTAATGGAGATACTCATCTGGGTGGAGAAGAC
TTTGACGAGCGTGTCTATGGAACACTTCATCAAAGTGTACAAAAGAAGACGGGCAAAGATGTCAGGAAAGACAAT
AGAGCTGTGCAGAACTCCGCGCGAGGTAGAAAAGGCCAAACGGGCCCTGTCTTCTCAGCATCAAGCAAGAATT
GAAATTGAGTCTTCTATGAAGGAGAAGACTTTTCTGAGACCCTGACTCGGGCCAAATTTGAAGAGCTCAACATG
GATCTGTTCCGGTCTACTATGAAGCCCGTCCAGAAAGTGTGGAAGATTCTGATTTGAAGAAGTCTGATATTGAT
GAAATTGTTCTTGTGGTGGCTCGACTCGAATTCCAAAGATTAGCAACTGGTTAAAGAGTTCTTCAATGGCAAG
GAACCATCCCGTGGCATAAACCCAGATGAAGCTGTAGCGTATGGTGTGCTGCTCCAGGCTGGTGTGCTCTCTGGT
GATCAAGATACAGGTGACCTGGTACTGCTTGTATGTATGTCCCTTACACTTGGTATTGAAACTGTGGGAGGTGTC
ATGACCAAAGTATTCCAAGGAACACAGTGGTGCCTACCAAGAAGTCTCAGATCTTTTCTACAGCTTCTGATAAT
CAACCAACTGTTACAATCAAGGTCTATGAAGGTGAAAGACCCCTGACAAAAGACAATCATCTTCTGGGTACATTT
GATCTGACTGGAATTCCTCCTGCTCCTCGTGGGTCCCACAGATTGAAGTCACTTTGAGATAGATGTGAATGGT
ATTCTTCGAGTGACAGCTGAAGACAAGGTACAGGGAACAAAATAAGATCACAATCACCATGACCAGAATCGC
CTGACACCTGAAGAAATCGAAAGGATGGTTAATGATGCTGAGAAGTTTGCTGAGGAAGACAAAAGCTCAAGGAG
CGCATTGATACTAGAAATGAGTTGGAAAGCTATGCCTATTCTCTAAAGAATCAGATTGGAGATAAAGAAAAGCTG
GGAGGTAACTTTCTCTGAAGATAAGGAGACCATGGAAAAAGCTGTAGAAGAAAAGATTGAATGGCTGGAAAGC
CACCAAGATGCTGACATTGAAGACTTCAAAGCTAAGAAGAAGGAACTGGAAGAAATTGTTCAACCAATTATCAGC
AAACTCTATGGAAGTGACGGCCCTCCCCAACTGGTGAAGAGGATACAGCAGAAAAAGATGAGTTGTAGACTG
ATCTGCTAGTGCTGTAATATTGTAAATACTGGACTCAGGAACCTTTGTTAGGAAAAAATTGAAAGAACTTAAGTC
TCGAATGTAATTGGAATCTTCACCTCAGAGTGGAGTTGAACTGCTATAGCCTAAGCGGCTGTTTACTGCTTTTC
ATTAGCAGTTGCTCACATGTCTTTGGGTGGGGGGGAGAAGAAGATTGGCCATCTTAAAAAGCAGGTAAAAAACC
TGGGTTAGGGTGTGTGTTACCTTCAAATGTTCTATTTAACAACCTGGGTCTATGTGCATCTGGTGTAGGAAGTTT
TTTCTACCATAGTGACACCAATAAATGTTTGTATTTTACTGGTCTAATGTTTGTGAGAAGCTTCTAATTAGA
TCAATTACTTATTTTAGGAAATTTAAGACTAGATACTCGTGTGTGGGGTGGGGGAGGGAGTATTGGTATGTTG
GGATAAGGAAACACTTCTATTTAATGCTTCCAGGGATTTTTTTTTTTTTTTTAAACCCTCCTGGGCCCAAGTGA
TCCTTCCACCTCAGTCTCCAGCTAATTGAGACCACAGGCTTGTACCACCATGCTCGGCTTTTGCATTAATCTA
AGAAAAGGGGAGAGAAGTTAATCCACATCTTTACTCAGGCAAGGGGCATTTACAGTGCCCAAGAGTGGGGTTTT
CTTGAACATACTTGGTTTCCTATTTCCCTTATCTTCTAAAACTGCCTTTCTGGTGGCTTTTTTAAATTTATT
ACTAATGATGCTTTTATAGCTGCTTGGATTCTCTGAGAAATGATGGGAGTGAGTGATCACTGGTATTAACCTTA
TACACTTGGATTTCATTTGTAACCTTAGGATGTAAAGGTATATTGTGAACCTAGCTGTGTGAGAATCTCCATCC
CTGAAATTTCTCATTAGTGGTACTGGGGTGGGATCTGGATGGTGACATTGAACTACACTAAATCCCTCACTA
TGAATGGGTTGTTAAAGGCAATGGTTTGTGTCAAACCTGGTTTAGGATTACTTAGATTGTGTTCTCTGAAGAAAAG
AGTCCAGGTAAATGGTATGATCAATAAAGGACAGGCTGGTGCTAACATAAAATCCAATATTGTAATCCTAGCACT
TTGGGAGGCCAAGCGGGTGGATCACAAGGTCAAGAGATAGAGACCATCTTTGCCAACATGGTGAACTCCATCT
CTACTGAAAATACAAAATTAGCTGGGCGTGGTAGTGCAAGCTGAAGGCTGAGGCAGGAGAATCACTCGAACCCG
GGAGGCAGAGGTTGCAGTGAGCCGAGATCACACCACTGTACTCCAGCCCGGCACTCCAGCCTGGCGACAAGAGTG
AGACTCCACCTCAAAAAAAGAAATCCAATACTGCCAAGGATAGGTATTTATAGATGGGCAACTGGCT

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FIGURE 939B

GAAAGGTTAATTCTCTAGGGCTAGTAGAACTGGATCCCAACACCAAACCTCTTAATTAGACCTAGGCCTCAGCTGC
ACTGCCCCGAAAAGCATTGCGCAGACCCTGAGCAGAATACTGGTCTCAGGCCAAGCCCAATACAGCCATTAAAGA
TGACCTACAGTGCTGTGTACCCTGGGGCAATAGGGTTAAATGGTAGTTAGCAACTAGGGCTAGTCTTCCCTTACC
TCAAAGGCTCTCACTACCGTGGACCACCTAGTCTGTAACCTCTTCTGAGGAGCTGTTACTGAATATTAAAAAGAT
AGACTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 940

MKLSLVAAMLLLLSARAEEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIANDQGNRITPSYVAFTPEGERL
IGDAAKNQLTSNPENTVFDKRLIGRTWNDPSVQQDIKFLPFKVVEKKTOPYIQVDIGGGQTKTFAPEEISAMVL
TKMKETAAYLGKKVTHAVVTVPAYFNDAQRQATKDAGTIAGLNMRIINEPTAAAIAYGLDKREGEKNILVFDL
GGGTFDVSLTIDNGVFEVVATNGDTHLGGEDFDQVMEHFIKLYKKKTGKDVRKDNRAVQKLRREVEKAKRALS
SQHQARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLEDSDLKKS DIDEIVLVGGSTRIPKIQQLV
KEFFNGKEPSRGINPDEAVAYGAAGVLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQI
FSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKIT
ITNDQNRLTPEEIERMVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGGKLSSDKETMEKAVEE
KIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTAEKDEL

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FIGURE 941A

CGGCCGCCGCATTGCGCCGCGTGGTTCCACGACCTGTATCCCTCGTGCTCGGCTTCCTGCGCGATAACCAAC
TCTCAGAGGTGGCCAATAAGTTCGCCAAAGCGACAGGAGCTACACAGCAGGATGCCAATGCCTCTTCCCTCTTAG
ACATCTATAGCTTCTGGCTCAAGTCTGCCAAGGTCCAGAGCGAAAGTTACAGGCAAATGGACCAGTGGCTAAGA
AAGCTAAGAAGAAGGCCTCATCCAGTGACAGTGAGGACAGCAGCGAGGAGGAGGAGGAAGTTCAAGGGCCTCCAG
CAAAGAAGGTGCTGTACCTGCCAAGCGAGTCGGTCTGCCCTCTGGGAAGGTGCAGCCAAAGCATCAGAGAGTA
GCAGCAGTGAAGAGTCCAGTGATGATGATGATGAGGAGGACCAAAAGAAACAGCCTGTCCAGAAGGGAGTTAAGC
CCCAAGCCAAGGCAGCCAAAGCTCCTCCTAAGAAGGCCAAGAGCTCTGATTCTGATTCTGACTCAAGCTCCGAGG
ATGAGCCACCAAAGAACCAGAAGCCAAAGATAACACCTGTGACAGTTAAAGCTCAGACTAAAGCCCCCTCCCAAAC
CAGCTCGAGCAGCACCTAAAAATGCCAATGGTAAAGCAGCCAGTAGCAGCAGTAGCAGCAGCAGCAGCAGTAGCA
GTGATGACTCAGAGGAGGAGAAGGCAGCAGCCACCCCAAGAAGGTCTGGACCATAACTTCTGTCTAGGGCAGAGA
CTGTACCTAAAAAGCAAGTTGTGGCCAAGGCCCCAGTGAAAGCAGCTACCACCCTACCCGGAAGAGTTCTAGCA
GTGAGGATTCTCCAGTGACGAGGAAGAGGAGCAAAAAAACCATGAAAAATAAACAGGTCCCTACAGTTTCTAG
TCCCCCGCCTTCTGCTCCCCACCAAAGAAGTCTCTGGGAACCCAGCCTCCCAAGAAGGTGTGGAGAAGCAGC
AGCCTGTGGAAAGCAGTGAAGACAGCAGTGATGAGTCTGATTCAAGTTCTGAAGAAGAGAAGAAACCCCAACTA
AGGCAGTAGTCTCTAAAGCAACCACTAAACCCTCCAGCAAGAAAGCAGCAGAGAGCTCTTCAGACAGCTCAG
ACTCTGACAGCTCTGAGGATGATGAAGCTCCTTCTAAGCCAGCTGGTACCACCAAGAATTCTTCAAATAAGCCAG
CTGTACCACCAAGTCACCTGCAGTGAAGCCAGCTGCAGCCCCAAGCAACCTGTGGGCGGTGCCAGAAGCTTC
TGACGAGAAAGGTGACAGCAGCTCCAGTGAGGAAGAGAGCAGCTCCAGTGAGGAGGAGAAGACAAAGAAGATGG
TGGCCACCCTAAGCCCAAGGCGACTGCCAAAGCAGCTCTACCTCTGCCTGCCAAGCAGGCTCCTCAGGGTAGTA
GGGACAGCAGCTCTGATTCTAGACAGCTCCAGCAGTGAGGAGGAGGAAGAGAAGACATCTAAGTCTGCAGTTAAGA
AGAAGCCACAGAAGGTAGCAGGAGGTGCAGCCCCCTTCCAAGCCAGCCTCTGCAAAGAAAGGAAGGCTGAGAGCA
GCAACAGTTCTTCTTCTGATGACTCCAGTGAGGAAGAGGAAGAGAAGCTCAAGGGCAAGGGCTCTCCAAGACCAC
AAGCCCCCAAGGCCAATGGCACCTCTGCACTGACTGCCAGAATGGAAAAGCAGCTAAGAACAGTGAGGAGGAGG
AAGAAGAAAAGAAAAGGCGGCACTGGTAGTTTCCAAATCAGGTTTATTAAAGAAGCGGAAGCAGAATGAGGCTG
CCAAGGAGGCAGAGACTCCTCAGGCCAAGAAGATAAAGCTTCAGACCCCTAACACATTTCCAAAAAGGAAGAAAG
GAGAAAAAAGGGCATCATCCCCATTCCGAAGGGTCAGGGAGGAGGAAATTGAGGTGGATTACAGAGTTGCGGACA
ACTCCTTTGATGCCAAGCGAGGTGCAGCCGGAGACTGGGGAGAGCGAGCCAATCAGGTTTTGAAGTTACCAAAG
GCAAGTCCTTTTCGGCATGAGAAAACCAAGAAGAGCGGGGCAGCTACCGGGGAGGCTCAATCTCTGTCCAGGTCA
ATTCTATTAAGTTTGACAGCGAGTGACCTGAGGCCATCTTCGGTGAAGCAAGGGTGATGATCGGAGACTACTTAC
TTTCTCCAGTGAGCTGGGAACCCCTCAGGTCTCTAGGTGAGGGTCTTGATGAGGACAGAAGTTTAGAGTAGGTCC
TAAGACTTTACAGTGTAACATCCTCTCTGGTCCTTTTCTGTGTTCTAGTTTTGTACAGACTTGTTTTTGAGTGT
TGAGTAGCAGGGACAAAATAAGGGAATGTTATTTTTTAAGAAAATTCATTTTCATTGTTGTCTCCTTCTTTCT
GTGAAAGTCTCATACTGAGAAATTTGTATATTTTATATTAATCACTTACTATTGATTTTTGTGTGATTTTCA
AAGGTGGATTCCACAGATAAAATCTTGGCTATTGCCCAAAACATAGTAAAGGGTCAGGTGTGACTTTTTATAAT
AGGAAGAAAATTTGCCTTTGTGAGTGCACATGTCCACATTTTCATCCCTCCTTCCCTCAAAACCTTAGAGAGGGG
CATTAAAGAATTGTTGATGTATATGCAATGTCTGTTAAGCATGCATATGTATTTTCATCCTCATTATTGGGTCT
GGGACTGAAGTTTTTAGCCAGCATGGACCTAACCTACTTTTTGGGATAAAATTCCTGTGTTTTGTTACAGGCAAAA
TTCTGGTATGGCGTGAATGCCATGGGTCACTCTGAATATATTTTTTCTGTAATTTTATCATTACACGATGTTTG
CAATACGTGCTTTGTTTTTAATTTGAAAGCAAACCTTTCTACTGTTGAAAGACATTTTTTGACAACCTTGACCCT
TCCTAGTATTGAGTTCTAAGTTGAGGACTGCATCTTCTCGTTTTTACAGTATAGAGAACAAAATGACATTAGTT
TGAAAAATACATATCACTTGGTATTGCTGTCTTGGTTGCAGTGGTGATACAGAATTGGTTTTCTTAATTCCTACA
TGTTTGAGAACTCACTGATCAAGAAAGTGGGGGAAAAAACAACGTTAAACCTCAATCCTCAGTAGGAAGGT
AGATTACATTAGGTGAAATTATAGGTAATCTATGTGCTAATGGGGTTGGAAGAACCTTACAGAGCATATT
ACCTGATAAACTGGAGTGGGTTTTGGGAGAAACAACTAATAGGATTATTGTGTCTCTAGTTGGTACCTGGGAGCA
ATTGACATGCCCCCTCAGAACCTTAAGTTAGTAGCAGTGGCTGTAACAACACAAACAGTACAGGAGATAA
CAGCTTTTAGGCCAAGCTGGCCTGACGGTATGGCTGCAGGAAGTGACTGAGCAGTAGCGGTACTCAGCCAGACCA
AGACGGAGAGGGAAGAGTCCACAGCTTTCTGGAAGCTAAGGCATTCTGGTGGTAGAAAAGTGTGCCCAAGCCTT
CATGGACGAGTTATAGGTCTTAAGATTAGTCTCCTCTTGTGGATTCCATACCTTCTAAATAACCTGATAATAA

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FIGURE 941B

CCTGGTTTTCCATGTAACIGCCTCTAGGAAGAAAATGTACTGTTTCATGCTGACACAGATATTTAGTCTGCATGG
TAAAAGTTCTAAATCTTACTACAAAATAATAAACTGGCTGGTTTATAATGTG

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FIGURE 942A

TCTCACTATAGGGCTCGAGCGGCCGCCGGGCGAGGCTGACCACAGTGGTTCCGGGGAGAAGCCTTCCAGGACCC
ATGTGTAGGCACAACGTGTTTTCCCTGATCAGGATACTTCCGGCACTCAACAGAGGAAAGAAATTCCTAAGGGAAC
ACTGCTCAGAAAGTACTGCAGCATGTCTTCAAATGCCTGAGGATCAAGTTGGAAAACCTAGAAGCAACAGAAAACA
CAATAAGCGCAATGCGCGGCCGCCGGGCGAGCAGCAACAGTTCTACCTGCTGCTGGGAAACCTGCTCAGCCCCG
ACAAATGTGGTCCGGAACAGGCAGAGGAAACCTATGAGAATATCCCAGGCCAGTCAAAGATCACATTCCTCTTAC
AAGCCATCAGAAATACAACAGCTGCTGAAGAGGCTAGACAAATGGCCGCCGTTCTCCTAAGACGTCTCTTGCTCT
CTGCATTTGATGAAGTCTATCCAGCACTTCCCTCTGATGTTGAGACTGCCATCAAGAGTGAGCTACTCATGATTA
TTCAGATGGAAACACAATCTAGCATGAGGAAAAAAGTTGTGATATTGCGGCAGAACTGGCCAGGAATTTAATAG
ATGAGGATGGCAATAACCAGTGGCCGAAGGTTTGAAGTTCCTTTTTGATTGAGTCAGCTCTCAAAATGTGGGAC
TGCGGGAAGCTGCCCTTACATTTTTCTGGAACCTTCTGGAATTTTTGGGAACCAGCAACAACACTATTTAGATG
TCATCAAACGAATGTTAGTTGAGTGTATGCAAGATCAGGAACACCCGTCGATCAGGACGTTATCTGCTAGAGCTA
CAGCTGCATTTATACTTGCAAATGAGCATAATGTTGCTGTGTTCAAACATTTGTCAGACTTGCTACCGGGATTCC
TACAGGCGGTAAATGACTCGTGTCTACCAAGATGATGATTCTGTCTTAAATCCCTCGTTGAGATTGCAGATACTG
TTCCAAAGTATTTGCGTCTCACTTGGAGCAACTCTACAGCTAAGTCTAAAGTTGTGTGGAGACACTAGCCTCA
ACAATATGCAACGCCAGCTTGCCCTTGAAGTGATCGTCACCTCTCTGAGACTGCAGCTGCTATGTTAAGAAAAAC
ATACCAATATTGTTGCACAGACTATTCCCTCAGATGTTAGCAATGATGGTTGATTGGAAGAAGATGAGGACTGGG
CAAATGCAGATGAAGTAGAAGATGATGATTTTGACAGCAATGCAGTTGCAGGCGAGAGTGCTCTAGATCGAATGG
CTTGCGGACTTGGTGGAAAGCTCGTTCTGCCGATGATCAAGGAACACATTATGCAAATGCTTCAAAATCCTGACT
GGAAATACCGGCATGCAGGATTGATGGCCTTATCTGCCATTGGTGAAGGGTGCCACCAGCAAATGGAAGGAATTC
TAAATGAGATCGTAAATTTGTTTTACTTTTTCTCCAGGATCCTCATCCAAGAGTAAGGTATGCAGCCTGTAATG
CCGTGGGACAGATGGCTACAGATTTTGACCTGGTTTCCAAAAGAAATTTTCATGAGAAGGTGATTGCAGCTCTGC
TGCAGACCATGGAAGACCAAGGCAATCAACGTGTGCAGGCCATGCAGCTGCTGCCCTCATTAACTTTACTGAAG
ACTGTCCCAAGTCACTACTTATTCCATACTTGGATAATTTGGTGAAACATCTGCATTCCATTATGGTACTGAAGC
TTCAAGAGCTGATTGAGAAAGGCACCAAGTTAGTTTTGGAACAAGTTGTGACATCCATTGCATCAGTTGCCGATA
CTGCAGAAGAAAAATTTGTCCCTACTATGATTTATTTATGCCATCACTGAAGCACATCGTTGAGAATGCGGTTT
AAAAAGAAGTCTGAGACTTCTGAGAGGAAAACTATTGAATGCATTAGCCTCATTGGTCTGGCTGTGGGAAGGAAA
AATTCATGCAGGATGCATCAGATGTGATGCAGCTTTTGTAAAGACCCAGACAGACTTCAATGATATGGAAGATG
ATGATCCTCAGATCTCTTACATGATCTCAGCATGGGCCAGAAATGTGCAAAATCCTTGGAAGAAGATTTACGCAAT
ACCTTCCAGTGGTTATGGGGCCTTTAATGAAGACGGCTTCAATTAAGCCCGAAGTAGCCCTTTTAGATACCCAAG
ACATGGAGAATATGAGTGATGATGATGGTTGGGAATTTGTGAACCTTGAGATCAGCAAAGCTTGGTATTAAAA
CTGCAGGACTAGAAGAAAAATCAACTGCTTGCCAGATGTTGGTTGCTATGCTAAGGAGTTAAAGGAAGGCTTTG
TGGAGTACACCGAACAGGTTGTCAAATGATGGTCCCTTTACTGAAATTTTATTCCACGATGGTGTTCGAGTGG
CAGCAGCGGAATCCATGCCTCTTCTCTGGAGTGTGCAAGAGTCCGTGGTCTGAGTATCTCACACAGATGTGGC
ATTTTATGTGTGATGCTCTAATTAAGGCCATTGGTACAGAACAGATTGAGACGTCTCTCAGAAATAATGCATT
CTTTTGCAAAGTGCATTGAAGTAATGGGAGATGGATGCCTTAATAATGAACACTTTGAAGAAGTGGGAGGTATAT
TGAAAGCAAAGCTTGAAGAACATTTAAAAATCAAGAATTACGACAAGTTAAAGACAAGATGAAGACTATGATG
AACAGGTGCAAGAGTCACTACAAGATGAGGATGATAATGATGTTTATATTCTGACCAAGTGTGAGATATTTTAC
ACTCAATATTGAGTAGCTACAAGAAAAAGGTGTTACCATGGTTTGAACAGCTGCTTCCATTAAATGTCAACCTCA
TTTGTCCACATAGACCATGGCCAGACAGACAATGGGGATTATGCATCTTTGATGATGTCATAGAACACTGTAGTC
CAGCCTCATTAAAAATACGCAGAAATTTCTTAAGACCAATGCTCCAATATGTATGTGACAACAGCCAGAAAGTCA
GGCAAGCAGCTGCATATGGCTGGGAGTCATGGCAGATACGGTGGAGATAATTATCGCCCTTTTGTACAGAAG
CACTTCCCTGCTGGTAAGAGTTATTCAGTCTGCGGATTCTAAGACCAAGAAAGAAATGTCAATGCTACAGAGAAGT
GCATCTCAGCAGTAGGGAAAAATCATGAAGTTCAAGCCTGACTGTGTAACGTTGAAGAGGTCTTCCACACTGGT
TGCTTGGCTTCCACTACATGAAGATAAAGAAGAGCTGTTCAGACTTTCAATTATCTGTGTGACCTGATTGAAA
GTAATCATCAAATTGTTCTTGGCCCAAACAATACCAATCTGCCAAAAATTTTAGTATAATTGCGGAAGGAGAAA
TGCACGAGGCAATTAAACATGAAGATCCTTGTGCCAAACGCTTGCCCAATGTCGTTGCGCAAGTACAGACTTCTG
GAGGACTGTGGACTGAGTGCATAGCACAGCTCAGTCTGAGCAGCAGGCCGCCATTCAGGAGCTCCTGAACCTCTG
CGTGAAGGGCCTTAATGTCAACCCACCAGAAAACTAACTCCAATAAACGCTTACCCCTTTCTTTAGGTTTCTTTG

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FIGURE 942B

TTTTGTTTTTGAGCAAAAGAGATCGGTAGTGTTGTGTGTAGGCCATTCTTCTGGAGAGCCACAAGCAGGAAGAGC
AGCGCTGTGTGCAGAAATGGAGTTTCCATGGATTTCTACCAGACCACTGAAGGAGTTCCTGGAAGCCCTGCGTAC
GTAGCACTGAAGACTATTTTTCTATTGGTATAACCCGCCACCTGAAGGGGAAAGGGAAATCAAATTAATTTTC
TCGTTAGACATAAGGAAATTTAAGGAAAAACAGCTTTAAGAACAGTTACTCAGCGTAGATGTGTGTTACACAAA
TTGCCTTGCAATTCAGTGTTCAATTGTGAATTGGGAGTGTGAGTCTTTCTGTAGGGTACAAAGAAGCCTCCTACCCA
GCAAACCAGTAGACCCAAAAGTTGAAAAAACTGGATGACAGACAACAAGCATGAAGATGGCATATTTGATGTCA
CTTTGGTTCTTTTTCCAGAAGGCTTATACAGTGACTCAGTCGGGAAGCTTTCCAGCTTCAGCCCTTGAATGTGA
AGTGTCATTGGCATGTCTGGCAGTAGTCTCTCATTCACTCCCAATAAACAACATTGAATACAAAAGAGGCTTG TG
TAAAACTCAGTACTGTCTGGCTTGGATTCATTTTCATGTTTTTTAATATAAGAATGATCTAATATTTTTTTAAAG
TAATAGCTATCAGTAATAGCTGAGTGTTTTTCCCTAATATTTTCTTGTCGAATTCAGACTTAAGCATCGAGT
TTTTACCATCTTCCACTTTAAGCTAAGTTATGATACCTATTCCATTCACAATTGGTGTTCTTTTTAAGGTTTGCA
AATTTAGCCAATTTTGTAGCTAAGATTGTTCTGATCAGCTCAAAAAGATTTGGCTTAGTGTTTTTATTGCAAAAT
TATAATTGCTGTAGAGCCACACACAACCTTTGAACTTTAATTATAAGTGTTATGGCTAAAGTTATTTACTGAAA
ATTTAGTAAATGTGGAATGTTTCTTTATGTATTAACCTCATAGCAGTAAATGACTTGCTGTGTTTAAATTTT
TCTAAGGCATCTTAATAGACTTCTCTTGAAAAACCTTTCCAAGGTGTTAACATTTTTATAGTTTGTACTAAATT
TAACCGTGATATAAAAAATGAATTTTATGCATAGATCAGAATTTTAAATTAAAGGTTTTTTCTTTAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 943

MAAAAAEQQQFYLLGNLLSPDNVVRKQAEETYENIPGQSKITFLLQAIRNTTAAEEARQMAAVLLRRLLSSAFD
EVYPALPSDVQTAIKSELLMIQMETQSSMRKKVCDIAAELARNLIDEDGNNQWPEGLKFLFDSVSSQNVGLREA
ALHIFWNFPGIFGNQQQHYLDVIKRLVQCMQDQEHPSIRTLSARATAAFILANEHNVALFKHFADLLPGFLQAV
NDSCYQNDSDVLKSLVEIADTVPKYLRPHLEATLQLSLKLCDTSLNNMQRLALEVIVTLSETAAAMLRKHTNI
VAQTIPQMLAMMVDLEEDWDANADELEDDDFDSNAVAGESALDRMACGLGGKLVLPMIKEHIMQMLQNPDWKYR
HAGLMALSAIGEGCHQQMEGILNEIVNFVLLFLQDPHPRVRYAACNAVGMATDFAPGFQKKFHEKVIAALLQTM
EDQGNQVRVQAAAAALINFTEDCPKSLIPYLDNLVKHLHSIMVLKLQELIQKGTCLVLEQVVTSTIASVADTAE
KFVPYYDLFMPSLKHIVENAVQKELRLLRGKTIECISLIGLAVGKEKFMQDASDVMQLLKTQTDNDMEDDDPQ
ISYMISAWARMCKILGKEFQQYLPVVMGFLMKTASIKPEVALLDTDQNMENMSDDDGWEFVNLGDQQSFGIKTAGL
EEKSTACQMLVCYAKELKEGFVEYTEQVVKLMVPLLKFYFHDGVRVAAAESMPLLECARVRGPEYLTQMWHFMC
DALIKAIGTEPDSVLSEIMHSFAKCEVMGDGCLNNEHFEELGGILKAKLEEHFKNQELRQVKRQDEDEYDEQVE
ESLQDEDDNDVYILTKVSDILHSIFSSYKEKVLWFEEQLPLIVNLICPHRPWPDRQWGLCIFDDVIEHCSPASF
KYAEYFLRPMLQYVCDNSPEVRQAAAYGLGVMAQYGGDNYRPFCTEALPLLVRVIQADSSTKENVNATENCISA
VGKIMKFKPCVNVVEVLPHWLSWPLHEDKEEAVQTFNYLCDLIESNHPIVLGPNNNTNLPKIFSIIAEGEMHEA
IKHEDPCAKRLANVVRQVQTSGLWTECIAQLSPEQQAIIQELLNSA

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FIGURE 944

CAGTTGCTTCAGCGTCCCGGTGTGGCTGTGCCGTTGGTCCTGTGCGGTCACCTTAGCCAAGATGCCTGAGGAAACC
CAGACCCAAGACCAACCGATGGAGGAGGAGGAGGTTGAGACGTTCCGCTTTCAGGCAGAAATTGCCCAGTTGATG
TCATTGATCATCAATACTTTCTACTCGAACAAGAGATCTTTCTGAGAGAGCTCATTCAAATTCATCAGATGCA
TTGGACAAAATCCGGTATGAAAGCTTGACAGATCCCAGTAAATTAGACTCTGGGAAAGAGCTGCATATTAACCTT
ATACCGAACAAACAAGATCGAAGCTCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATCAAT
AACCTTGGTACTATCGCCAAGTCTGGGACCAAAGCGTTCATGGAAGCTTTGCAGGCTGGTGAGATATCTCTATG
ATTGCCAGTTCCGGTGTGGTTTTATTCTGCTTATTGTGGTTGCTGAGAAAGTAACTGTGATCACCAAACATAAC
GATGATGAGCAGTACGCTTGGGAGTCCCTCAGCAGGGGGATCATTACAGTGAGGACAGACAGGTGAACCTATG
GGTCGTGGAACAAAAGTTATCCTACACCTGAAAGAAGACCAAAGTACTGAGTACTTGGAGGAACGAAGAATAAAGGAG
ATTGTGAAGAAACATTCTCAGTTTATTGGATATCCCATTACTCTTTTTGTGGAGAAGGAACGTGATAAAGAAGTA
AGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAGAAAAAGAAGAGAAAGAGTCGGAAGACAAA
CCTGAAATTGAAGATGTTGGTTCTGATGAGGAAGAAGAAAAGAAGGATGGTGACAAGAAGAAGAAGAAGATT
AAGGAAAAGTACATCGATCAAGAAGAGCTCAACAAAACAAAGCCCATCTGGACCAGAAATCCCGACGATATTACT
AATGAGGAGTACGGAGAATTCTATAAGAGCTTGACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTTTCA
GTTGAAGGACAGTTGGAATTCAGAGCCCTTCTATTTGTCACGACGTGCTCCTTTTGATCTGTTTGAAACAGA
AAGAAAAAGAACAACATCAAATTGTATGTACGCAGAGTTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAA
TATCTGAAGTTTATTAGAGGGGTGGTAGACTCGGAGGATCTCCCTCTAAACATATCCCGTGAGATGTTGCAACAA
AGCAAAATTTTGAAAGTTATCAGGAAGAATTTGGTCAAAAAATGCTTAGAACTCTTTACTGAAGTGGCGGAAGAT
AAAGAGAACTACAAGAAATCTATGAGCAGTTCTCTAAAAACATAAAGCTTGAATACACGAAGACTCTCAAAAT
CGGAAGAAGCTTTTCAAGCTGTTAAGGTACTACACATCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTAC
TGCACCAGAATGAAGGAGAACCAGAAACATATCTATTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCA
GCCTTTGTGGAACGTCTTCGGAACATGGCTTAGAAGTGATCTATATGATTGAGCCATTGATGAGTACTGTGTC
CAACAGCTGAAGGAATTTGAGGGGAAGACTTTAGTGTCAGTCACCAAAGAAGGCCTGGAACCTCCAGAGGATGAA
GAAGAGAAAAAGAAGCAGGAAGAGAAAAAACAAAGTTTGAGAACCTCTGCAAAATCATGAAAGACATATTGGAG
AAAAAAGTTGAAAAGGTGGTTGTGTCAAACCGATTGGTGACATCTCCATGCTGTATTGTCAAGCACATATGGC
TGGACAGCAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACCTCAACAATGGGTTACATGGCAGCA
AAGAAACACCTGGAGATAAACCTGACCATTCCATTATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAAC
GACAAGTCTGTGAAGGATCTGGTCATCTTGCTTTATGAAACTGCGCTCCTGTCTTCTGGCTTCAGTCTGGAAGAT
CCCCAGACACATGCTAACAGGATCTACAGGATGATCAAACCTTGGTCTGGGTATTGATGAAGATGACCCTACTGCT
GATGATACCAGTGCTGCTGTAAGTGAAGAAATGCCACCCCTTGAAGGAGATGACGACACATCACGCATGGAAGAA
GTAGACTAA

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FIGURE 945

MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLD SGKE
LHINLIPNKQDRTLTIIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTV
ITKHNDDEQYAWESSAGGSFTVRDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKE
RDKEVSDDEAEKEDKEEEEKEEKESEDKPEIEDVGSDEEEKKDGDKKKKKKIKEKYIDQEELNKT KPIWTRN
PDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCE
ELIPEYLNFI RGVVDS EDLP LNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIH
EDSQNRKKLSELLRYYTSASGDEMVS LKDYCTRMKENQKHIIYYITGETKDQVANS AFVERLRKHGLEVIYMI EPI
DEYCVQQLKEFEFGKTLVSVTKGLELPEDEEEKKKQEEKKT FENLCKIMKDILEKKVEKV VVSNRLVTSPCCIV
TSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSG
FSLEDPQTHANRIYRMIKLGLGIDEDDPTADDTSAAVTEEMP PLEGDDDTSRMEEVD

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FIGURE 946

ATCCCCCTCCGGTTTTCTCAGTCTCCACGTACGTCCCTCAAAGCGCGTCCTAAAACCCGGATAACCGGAGCGCTC
CCCATGGACCACACGGAGGGCTTGCCCGCGGAGGAGCCGCTGCGCATGCTCCATCGCCTGGGAAATTTGGTGAG
CGGCCCTCCACCTAAACGACTTACTAGGGAAGCTATGCGAAATTATTTAAAAGAGCGAGGGGATCAAACAGTACTT
ATTCTTCATGCAAAAGTTGCACAGAAGTCATATGGAAATGAAAAAAGGTTTTTTTGCCACCTCCTTGTTATAT
CTTATGGGCAGCGGATGGAAGAAAAAAGAACAATGGAACGCGATGGTTGTTCTGAACAAGAGTCTCAACCG
TGTGCATTATTGGGATAGGAAATAGTGACCAAGAAATGCAGCAGCTAAACTTGGAAGGAAAGAACTATTGCACA
GCCAAACATTGTATATATCTGACTCAGACAAGCGAAAGCACTTCATTTTTCTGTAAAGATGTTCTATGGCAAC
AGTGATGACATTGGTGTGTTCTCAGCAAGCGGATAAAAGTCATCTCCAAACCTTCCAAAAGAAGCAGTCATTG
AAAAATGCTGACTTATGCATTGCCTCAGGAACAAAGGTGGCTCTGTTTAAATCGACTACGATCCCAGACAGTTAGT
ACCAGATACTTGATGTAGAGGAGGTAATTTTCATGCCAGTTCACAGCAGTGGGGAGCCTTTTTTATTCATCTC
TTGGATGATGATGAATCAGAAGGAGAAGAATTCACAGTCCGAGATGTCTACATCCATTATGGACAAACATGCAAA
CTTGTGTGCTCAGTTACTGGCATGGCACTCCCAAGATTGATAATTATGAAAGTTGATAAGCATACCGCATTATTG
GATGCAGATGATCCTGTGTCACAACCCATAAATGTGCATTTTACCTTAAGGATACAGAAAGAATGTATTTGTGC
CTTTCTCAAGAAAGAATAATTCAATTTTCAAGGCCACTCCATGTCCAAAAGAACCAATAAAGAGATGATAAATGAT
GGCGCTTCTGGACAATCATTAGCACAGATAAGGCAGAGTATACATTTTATGAGGGAATGGGCCCTGTCCTTGCC
CCAGTCACTCCTGTGCCTGTGGTAGAGAGCCTTCAGTTGAATGGCGGTGGGGACGTAGCAATGCTTGAACCTTACA
GGACAGAATTTCACTCCAAATTTACGAGTGTGGTTTGGGGATGTAGAAGCTGAAACTATGTACAGGTGTGGAGAG
AGTATGCTCTGTGTCGTCCAGACATTTCTGCATTCCGAGAAGGTTGGAGATGGGTCCGGCAACCAGTCCAGGTT
CCAGTAACCTTGGTCCGAAATGATGGAATCATTTATTCCACCAGCCTTACCTTTACCTACACACCAGAACCAGGG
CCACGGCCACATTGCAGTGTAGCAGGAGCAATCCTTCCAGCCAATTCAAGCCAGGTGCCCCCTAACGAATCAAAC
ACAAACAGCGAGGGAAGTTACACAAACGCCAGCACAAATTCACCAGTGTACATCATCTACAGCCACAGTGGTA
TCCTA

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FIGURE 947

MDHTEGLPAEEPPAHAPSPGKFGERPPPKRLTREAMRNYLKERGDQTVLILHAKVAQKSYGNEKRFFCPCPPCVYL
MSGWKKKKEQMERDGCSEQESQPCAFIGIGNSDQEMQQLNLEGKNYCTAKTLYISDSKRRKHFIKSVKMFYGN
DDIGVFLSKRIKVISKPSKKKQSLKNADLCIASGTKVALFNRLRSQTVSTRYLHVEGGNFHASSQQWGAFIHL
DDDESEGEFTVRDVYIHYGQTCKLVCSVTGMALPRLIIMKVDKHTALLDADDPVSQLHKCAFYLKDTMYLCL
SQERIIQFQATPCPKPEPNKEMINDGASWTIISTDKAETTFYEGMGPVLAPVTFVPVVESSLQNGGGDVAMLELTG
QNFTPNLRVWFGDVEAETMYRCGESMLCVVPDISAFREGWRWVRQPVPVTLVRNDGIIYSTSLTFTYTPEPGP
RPHCSVAGAILPANSSQVPPNESNTNSEGSYTNASTNSTSVTSSTATVVS

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FIGURE 948A

CGAAGGACCTGAAGGAAAGTGAAAAGTCCAAAGTTTAAGATGCCAGAGATGCATTTTAAGACTCCAAAGATATC
CATGCCAGATATTGACCTGAATCTCACAGGTCCAAAAATAAAAGGAGATGTGGATGTTACAGGCCCTAAGGTAGA
GGGAGATCTGAAAGGTCTGAAGTTGACCTCAAAGGCCCCAAAGTGGACATTGATGTCCCAGATGTTAATGTCA
GGGTCCAGACTGGCACCTGAAGATGCCCAAGATGAAAATGCCTAAGTTCAGTATGCCTGGCTTCAAAGGAGAGGG
CCCAGATGGTGGATGTGAAGCTGCCCATAGGCTGACATTGATGTCTCAGGACCAAAGTGGACATTGAAGGCCCTG
ATGTTAACATTGAAGGACCAGAGGGAAGTTGAAAGGGCCTAAGTTCAGATGCCAGAGATGAATATCAAAGCCC
CCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAGTGAAGGGTGATGTGGATGTTTCCCTTCC
TAAAGTGGAAGGTGACCTCAAGGGCCCAGAAGTTGACATCAAGGGCCCCAAAGTGGACATTGACGCACCTGATGT
TGATGTTTCATGGCCAGACTGGCACCTAAAGATGCCCAAGATGAAAATGCCCAAGTTCAGCATGCCTGGCTTCAA
AGCAGAGGGCCCTGAAGCTGGAATGTGAACCTGCCCAAGGCTGACGTTGATGTCTCAGGCCCCAAAGTGGATATT
AATGCCCCAGATGTGGGTGTTCAAGGCCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCAAAGTTCAGC
ATGCCTGGCTTCAAAGGAGAGGGGCCAGATGGGGATGTGAAGCTGCCCAAGGCTGACATTGATGTCTCAGGACCC
AAAGTGGACATTGAAGGCCCTGATGTTAACATTGAAGGACCAGAGGGAAGTTGAAAGGGCCTAAGTTCAGATG
CCAGAGATGAATATCAAAGCCCCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAG
GGTGATGTGGATGTTTCCCTTCTTAAAGTGGAAGGTGACCTCAAGGGCCCAGAAGTTGACATCAAGGGCCCCAAA
GTGGACATTGACGCACCTGATGTTGATGTTTCATGGCCAGACTGGCACCTAAAGATGCCCAAGATAAAAATGCC
AAGATCAGCATGCCTGGCTTCAAAGGAGAAGGTCCAGATGTGGACGTGAACCTGCCCAAGGCTGACATTGATGT
TCAGGACCGAAAAGTGGATGTTGAATGTCCGATGTGAATATCGAAGGACCTGAAGGAAAGTGGAAAAGTCCAAAG
TTTAAGATGCCAGAGATGCATTTTAAGACTCCAAAGATATCCATGCCAGATATTGACCTGAATCTCACAGGTCCA
AAAATAAAAGGAGATGTGGATGTTACAGGCCCTAAGGTAGAGGGAGATCTGAAAGGTCTGAGATTGACCTCAA
GGCCCCAAAGTGGACATTGATGTCCCAGATGTTAATGTTTCAGGGTCCAGACTGGCACCTGAAGATGCCCAAGATG
AAAATGCCCAAGTTCAGCATGCCTGGCTTCAAAGCAGAGGGCCCTGAAGTGGATGTGAACCTGCCCAAGGCTGAC
GTTGATGTCTCAGGCCCCAAAGTGGACGTTGAAGGCCCTGATGTTAACATTGAAGGACCAGAGGGAAGTTGAAA
GGGCCCCAAGTTCAGATGCCAGAGATGAATATCAAAGCCCCAAGATCCCCATGCCTGACTTTGATTTGCATCTG
AAAGGTCCCAGGTGAAGGGCGATGTGGATATTTCTCTGCCCAAAGTGAAGGTGACCTCAAGGGCCCTGAAGTT
GACATCAGGGGTCCCAAAGTGGACATTGATGTCCCGGATGTGGGCGTTCAAGGCCCAGACTGGCACCTAAAAATG
CCCCAAGTGAAAATGCCCAAATTCAGCATGCCTGGCTTCAAAGGAGAGGGGCCAGATGTGGATGTGAACCTGCC
AAGGCTGACCTTGATGTCTCAGGACCCAAAGTGGACATTGATGTTCCAGATGTGAATATCGAAGGCCCAGAGGGA
AAGTTGAAAGGTCCCAAATTCAAAATGCCTGAGATGAACATCAAAGCCCCAAGATCTCCATGCCTGACATTGAT
CTTAACCTGAAAGGTCCCAAAGTGAAGGGTGACATGGATGTGTCTCTGCCAAAAGTGAAGGTGACATGAAAGTT
CCTGACGTGGATATTAAAGGCCCCAAAGTGGATATTAATGCCCCAGATGTGGATGTTCAAGGCCCAGACTGGCAC
CTGAAGATGCCATAAAATAAAATGCCCAAGATCAGCATGCCTGGCTTCAAAGGAGAAGGTCCAGAAGTGGACGTG
AACCTGCCCAAGGCTGACCTTGACGTCTCAGGACCCAAAGTGGACGTTGATGTTCCAGATGTGAATATTGAAGGT
CCAGATGCGAACTGAAGGGCCCTAAATTCAGATGCCAGAGATGAACATCAAAGCCCCAAGATCTCCATGCCT
GACTTTGATTGTCATCTGAAAGGCCCTAAGGTGAAAGGAGATGTGGATGTTTCTCTGCCTAAGATGGAAGGTGAT
CTAAAGGGTCTGAAAGTTGACATCAAGGGCCCCAAAGTGGACATTAATGCTCCAGATGTGGATGTTCAAGGCCCA
GACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAGTTCAGCATGCCTGGCTTCAAAGGAGAGGGGCCAGAT
GTGGATGTGAACCTGCCCAAGGCTGACCTTGATGTCTCAGGACCCAAAGTGGACATTGATGTTCTCTGATGTGGAT
ATCCGAAGGTCCAGAAGGGAACTGAAAGGTCCCAAATTCAGATGCCTGAGATGAGCATCCAAGCCCCAAGAT
CTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAGGGCGATGTGGATGTTACCCTTCTTAAAGT
GGAAGGTGACCTCAAGGGCCCAGAAGCTGACATCAAGGGCCCCAAAGTGGACATCAACACCCCTGATGTGGATGT
TCATGGCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAATTCAGCATGCCTGGCTTCAAAGGAGA
AGGTCCAGATGTGGATGTGAACCTGCCCAAGGCTGACATTGATGTCTCAGGACCCAAAGTGGACGTTGATGTTCC
TGATGTGAATATCGAAGGTCCAGATGCGAAACTAAAGGGCCCCAAGTTCAGATGCCTGAGATGAGCATCAAAGC
CCCCAAGATCTCCATGCCTGATATTGACTTAAACCTGAAAGGACCCAAAGTGAAGGGCGATGTGGATGTTACCCT
TCCTAAAGTGAAGGTGACCTCAAGGGCCCAGAAGCTGACATCAAGGGCCCCAAAGTGGACATCAACACCCCTGA
TGTGGATGTTTCATGGCCAGACTGGCACCTGAAGATGCCCAAGGTGAAAATGCCCAAATTCAGCATGCCTGGCTT
CAAAGGAGAAGGTCCAGATGTGGATGTGAGCCTGCCCAAGGCCGACATCGATGTCTCGGGACCCAAAGGTGGACGT

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FIGURE 948B

TGATATTCCAGATGTGAATATCGAAGGTCCAGACGCAAACTGAAGGGCCCCAAGTTCAAGATGCCTGAAATAAA
TATCAAAGCTCCCAAGATCTCCATACCTGATGTTGACCTGGATTTGAAAGGACCCAAAGTAAAAGGAGATTTTGA
TGTGCTGTCCCTAAGGTTGAAGGGACTTTGAAAGGCCCAGAAGTAGATCTTAAAGGTCCACGTCTGGATTTGGA
AGGCCCTGATGCCAACTCAGTGGCCCATCTTTGAAGATGCCATCGCTGGAGATATCTGCTCTAAAGTAACTGC
TCCTGATGTTGATTTGCATCTCAAGGCACCAAAAATTGGATTTTCAGGTCCGAAGTTAGAAGGTGGTGAAGTGGA
CCTCAAGGGACCCAAAGTTGAAGCTCCAAGCTTAGATGTACACATGGACAGCCAGATATTAACATCGAAGGGCC
AGATGTTAAAATCCCCAAATTTAAGAAACCAAGTTTGGATTTGGGGCAAAAAGCCCCAAAGCTGACATCAAGTC
ACCTTCACTGGATGTCACTGTTCTGAGGCAGAGCTGAACCTTGAGACTCCTGAAATTAGTGTGGTGGCAAGGG
CAAGAAAAGTAAGTTTAAAATGCCTAAAATTCATATGAGTGGTCTTAAGATTAAGGCCAAAAAACAGGGATTTG
ACCTGAATGTTCTGGGGGTGAAATTGATGCCAGCCTCAAGGCTCCGGATGTAGATGTCAACATCGCAGGGCCGG
ATGCTGCACTCAAAGTCGACGTGAAATCGCCCAAAACCAAGAAAACGATGTTTGAAAAATGTACTTCCAGATG
TAGAGTTTGACATTAAATCACCTAAATTTAAGCTGAGGCCCCCTCTCCCTAGCCCCAACTGGAGGGTGAATCC
AGGCACCTGATCTGGAACCTTCTTTGCCAGCGATTACGTCGAAGGTCTTGACATCAAGGCCAAGGCTCCCAAGG
TCAAGATGCCAGATGTGGACATCTCAGTGCCAAAATAGAGGGTGACCTGAAAGGCCCAAGTGCAGGCCAACT
TGGGTGCACCTGACATCAACATCGAAGGCCTAGATGCTAAAGTCAAAACACCGTCTTCGGCATTTCTGCCCTC
AAGTCTCCATCCCTGATGTGAATGTAACTTGAAAGGACCAAGATAAAGGGTGATGTCCCAGCGTGGGACTGG
AAGGACCAGATGTAGATCTGCAAGGTCCAGAAGCAAAAATTAAGTTCCCAAGTTTTCATGCCCAAGATCGGCA
TCCAGGTGTGAAAATGGAGGGTGGGGGAGCCGAGGTCCATGCCAGCTACCTCTCTTGAAAGGAGACTTGAGAG
GACCAGATGTTAAGCTCGAAGGGCCCGATGTTCTCTAAAGGGGCCAGGAGTAGACTTGCCTTCAGTGAACCTCT
CTATGCCAAAAGTCTCTGGGCTGACCTTGATCTGAACCTTGAAAGGACCAAGTTTGAAGGGAGACCTGGATGCAT
CTGTTCCAGCATGAAGGTGCATGCTCCAGGGCTCAACCTCAGTGGTGTCCGTGGCAAAATGCAGGTGGGAGGAG
ACGGTGTGAAAGTGCCAGGGATCGATGCCACAACAAAGCTTAACGTTGGGGCACCAGATGTGACACTGAGGGGAC
CAAGCCTGCAGGGAGATCTGGCTGTCTCTGGTGACATCAAAATGCCCTAAAGTATCCGTAGGAGCTCCTGATCTAA
GCTTGGAGGCATCCGAAGGCAGCATTAACTTCCCAAAATGAAGCTGCCCAATTTGGCATCTCTACTCCGGGGT
CCGACTTGCACGTCAATGCCAAGGGGCCACAGGTTTCTGGCGAAGTGAAGGGGCCAGGTGTGGATGTGAACCTGA
AAGGGCCTCGGATTTCAAGCACCAGATGTGGACTTTAACTTGAAGGACCAAAAGTGAAAGGGAGCCTTGGGGCCA
CTGGTGAGATCAAAGGCCCCACTGTGCGGAGGAGGTCTTCCAGGCATTGGTGTTCAGGCCCTAGAAGGAAACCTCC
AGATGCCTGGAATTAAGTCTCTGGATGTGATGTGAACCTGCCAGGCGTGAATGTGAAACTCCCACTGGGCAGA
TTTCTGGGCTGAAATCAAAGGTGGTCTGAAAGGTTCAAGAGTAGGTTTCCATGGGGCTGCTCCTGATATCAGTG
TGAAGGGGCTGCCCTTTAATATGGCATCTCCTGAGTCAGATTTTGGCATCAACTTGAAGGGCCCAAAATCAAAG
GAGGTGCGGATGTTTCAAGGGGTGTCAGTGCCCCAGACATCAGCCTTGGTGAAGGGCATTGAGTGTTAAAGGTT
CCGGGGGTGAGTGGAAGGGACCCCAAGTCTCCTCTGCTCTCAACTTGGACACATCTAAGTTTGCTGGGGGCTTC
ATTTCTCAGGACCAAGGTGGAAGGAGGTGTGAAAGGAGGTGAGATTGGACTCCAGGCTCCTGGGCTGAGTGTGT
CTGGGCTCAAGGTCACTTGGAAAGTGGATCTGGAAAAGTAACATTCCCTAAAATGAAGATCCCCAAATTTACCT
TCTCTGGCCGTGAGCTGGTTGGCAGAGAAATGGGGGTGGATGTTCACTTCCCTAAAGCAGAGGCCAGCATCCAAG
CTGGTGCTGGAGACGGCGAGTGGGAAGAGTCTGAAGTCAAAGTGAAGGATCAAGATCAAAATGCCCAAGTTTA
ATTTTTCAAACCTAAAGGGAAGGTGGTGTCACTGGCTCACCAGAAGCATCAATTTCTGGGTCCAAAGGTGACC
TGAAAAGTTCAAAGGCCAGCCTGGGCTCTCTGGAAGGAGAGGCAGAGGCCGAAGCCTCTTACCAGAAAGGCAAA
TCTCCTTATTTAAAAGTAAGAAGCCACGGCACCGCTCAAATTCATTAGTGATGAAAGAGAGTTCTCTGGACCTT
CCACCCGACGGGGACGCTGGAGTTTGAAGGTGGGGAAGTGTCTCTGGAAGGTGGGAAAGTTAAAGGGAAACAG
GGAAGCTGAAATTCGGTACCTTTGGTGGATTGGGGTCAAAGAGCAAAGGTCAATTATGAGGTGACTGGGAGCGATG
ATGAGACAGGCAAGTTACAGGGGAGTGGGGTGTCCCTGGCCTTAAGAAGTCCGACTGTCTCCTCTTCTAGCA
ATGACAGTGGGAATAAGGTTGGCATCCAGCTTCCGAGGTGGAGCTGTCAAGTTCCACAAAGAAAGAGTAGCAGG
CCTTTGTATGTGTACATATATATATATAACAAAACATCAGCCTTGGGTGGTGTGTTCTATATAAACTCCA
AAGGGAAACACACCGACTGCCTCAGCAATCATGCAAAGACCTTGCTGGCCCGGTGGCAAGCGCTGAAAAACCGA
CCGCTGTAGGCTCCTGGAATATACAGATAGGTAAAGAGTTCCAAGTTCGTCCAGCCCATGTGCAAAGTCAACA
GTATTTGCCTTAAGATTTCAATATATATATATTTTTTGCATTGACTGCTGAGAGCTCCTGTTTACTAAGCAAGCT
TTTGIGTTTATTATCCTCATTTTTTACTGAACATTGTTAGTTTTGGGGTAATGGAACCCACTTTTTTCAATTGTAAT

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FIGURE 948C

GACTTTGGGGGCTTTTGTAGTAAGGGTGGGTGGGGTGATGGGTTGCAGACGGAGGTCAGGTCTTCCTCTTCCT
GAGACTGGATCTGTTCAAACAGCAAACGCCCACAGATGGCCCAGAGGTGGTGGTAGTCAGGGTGTGTGGGTGTTT
TTAGGGTTCTTTAGTGTGTTTCTTTACCCAGGGGTGGTGGTCCCAGCCAGTTTGGTGCTGACGGTGAGAGGAA
ATTAGAATCTGTTTGCAAATTGTCCAACCCACCCCTCAACATGAGGGGCTTCCATTTTCTGTGTTTTGTAAGGG
AACTGTTTCCTTCATGCCGCCATGTTCTGATATTAGTTCTGATTTCTTTTAACAAATGTTATCATGATTAAGA
AAATTTCCAGCACTTTAATGGCCAATTAAGTGAAGAAATGATGCTGTACAAGGCAAATAAAGCTGT
TTATTAACTCCGAAAAAAATCTATGTCGGGTGCGGAGAAAGAGGTAATGAAATGGCA

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FIGURE 949

MPKVMPKFSMPGFKGEGPDGDVKLPKADIDVSGPKVDIEGPDVNIIEGPEGKLGPKFKMPEMNIKAPKISMPDI
DLNLKGPKVKGDVDVSLPKVEGDLKGPEVDIKGPKVDIDAPDVDVHGPDWHLKMPKIKMPKISMPGFKGEGPDVD
VNLPKADIDVSGPKVDVECPDVNIIEGPEGKWKSPKFKMPEMHFKTPKISMPDIDLNLTGPKIKGDVDVTGPKVEG
DLKGPEVDLKGPKVDIDVPDVNVQGPDWHLKMPKMKMPKFSMPGFKAEVPEVDVNLPKADVDVSGPKVDVEGPDV
NIEGPEGKLGPKFKMPEMNIKAPKIPMPDFDLHLKGPKVKGDVDISLPKVEGDLKGPEVDIRGPKVDIDVPDVG
VQGPDWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADLDVSGPKVDIDVPDVNIIEGPEGKLGPKFKMPEMNIK
APKISMPDIDLNLKGPKVKGDMVSLPKVEGDMKVPDIDKGPKVDINAPDVDVQGPDWHLKMPKIKMPKISMPG
FKGEGPEVDVNLPKADLDVSGPKVDVDPDVNIIEGPDALKGPKFKMPEMNIKAPKISMPDFDLHLKGPKVKGDV
DVSLPKMEGDLKGPEVDIKGPKVDINAPDVDVQGPDWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADLDVSGP
KVDIDVPDVIDRRSRETERSQIQDAEMSIQAPKISMPDIDLNLKGPKVKGDVDVTLPKVEGDLKGPEADIKGPK
VDINTPDVDVHGPDWHLKMPKVKMPKFSMPGFKGEGPDVDVNLPKADIDVSGPKVDVDPDVNIIEGPDALKGPK
FKMPEMSIKAPKISMPDIDLNLKGPKVKGDVDVTLPKVEGDLKGPEADIKGPKVDINTPDVDVHGPDWHLKMPK
KMPKFSMPGFKGEGPDVDVSLPKADIDVSGPKVDVDPDVNIIEGPDALKGPKFKMPEINIKAPKISIPDVLDDL
KGPKVKGDFDVSVKVEGTLKGPEVDLKGPRDLFEGPDALKSGPSLKMPSEISAPKVTAPDVLHLKAPKIGFS
GPKLEGGEVDLKGPKVEAPSLDVHMDSPDINIEGPDVKIPKFKPKFGGAKSPKADIKSPSLDVTVP AEALNLE
TPEISVGGKGGKSKFKMPKIHMSGPKIKAKKTGIDLNVPGGEIDASLKAPDVDVNIAGPDAAALKVDVKSPKTKKT
MFGKMYFPDVEFDIKSPKFAEAPLPSPKLEGELQAPDLELSLPAIHVEGLDIKAKAPKVKMPDVIDISVPKIEGD
LKGPKVQANLGAPDINIEGLDAKVKTPSFGISAPQVSIPDVNVNLKGPKIKGDVPSVGLEGPDVDLQGP EAKIKF
PKFSMPKIGIPGVKMEGGAEVHAQLPSLEGDLRGPDVKLEGPDVSLKGPGVDLPSVNL SMPKVS GPDLDLNLKG
PSLKGDLDA SVPSMKVHAPGLNLSGVGGKMVGGDGKVP GIDATTKLNVGAPDVTLRGPSLQGD LAVSGDIKCP
KVS VGAPDLSLEASEGSIKLPKMKLPQFGISTPGSDLHVNAKGPQVSGELKGPVDVNLPKGPRI SAPNVDFNLEG
PKVKGSLGATGEIKGPTVGGGLPGIGVQGLEGNLQMPGIKSSSGCDVNLPGVNVKLPTGQISGPEIKGGLKGSEVG
FHGAAPDISVKGPAFNMASPE SDFGINLKGPKIKGGADVSGGVSAPDISLGEHLSVKGSGGEWKGPQVSSALNL
DTSKFAGGLHFSGPKVEGGVKGQIGLQAPGLSVSGPQGHLES GSGKVTFPKMKIPKFTFSGRELVGREMGVDVH
FPKAEASIQAGAGDGEWEESEVKLKKSKIKMPKFNFSKPKGKGGVTGSPEASISGSKGDLKSSKASLGSLEGEAE
AEASSPKGKFSLFKSKKPRHRSNSFS DEREFSGPSTPTGTLEFEGGEVSLEGGKVKGKHGKLFGTFGGLGSKSK
GHYEVTGSDDDETGLQGSGVSLASKKSRLSSSSSSNDSGNKVGIQLPEVELSVSTKKE

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FIGURE 950

GTGCGGTTGGGAACGCGGAGCGGACGGATTTCGATTCAACGGGGTTCCGGACCGCGCTGCGCTATGGAGCAGGTCA
ATGAGCTGAAGGAGAAAGGCAACAAGGCCCTGAGCGTGGGTAACATCGATGATGCCTTACAGTGCTACTCCGAAG
CTATTAAGCTGGATCCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACC
AGAAGGCTTATGAGGATGGCTGCAAGACTGTCGACCTAAAGCCTGACTGGGGCAAGGGCTATTACGAAAAGCAG
CAGCTCTAGAGTTCTTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAACACGAGGCAAATA
ACCTTCAACTGAAAGAGGGTTTACAGAATATGGAGGCCAGGTTGGCAGAGAGAAAATTATGAACCTTTCAACA
TGCCTAATCTGTATCAGAAGTTGGAGAGTGATCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGC
TGATAGAGCAGCTACGAAACAAGCCTTCTGACCTGGGCACGAACTACAAGATCCCCGGATCATGACCACCTCTCA
GCGTCCTCCTTGGGGTCGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTC
CCAAAAGGAGACCAAGCCAGAGCCAATGGAAGAAGATCTCCAGAGAATAAGAAGCAGGCACTGAAAGAAAAG
AGCTGGGGAACGATGCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGG
ACCCCACTAACATGACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGG
AGCTTTGTGAGAAGGCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCTC
GAATTGGCAACTCCTACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCTGGCAGAGC
ACCGAACCCAGATGTGCTCAAGAAATGCCAGCAGGCAGAGAAAATCCTGAAGGAGCAAGAGCGGCTGGCCTACA
TAAACCCGACCTGGCTTTGGAGGAGAAGAACAAGGCAACGAGTGTTTTAGAAAAGGGGACTATCCCCAGGCCA
TGAAGCATTATACAGAAGCCATCAAAAGGAACCCGAAAGATGCCAAATTATACAGCAATCGAGCTGCCTGCTACA
CCAACTCCTGGAGTTCCAGCTGGCACTCAAGGACTGTGAGGAATGTATCCAGCTGGAGCCGACCTTCATCAAGG
GTTATACACGGAAGCCGCTGCGCTGGAAGCGATGAAGGACTACACCAAAGCCATGGATGTGTACCAGAAGGCGC
TAGACCTGGACTCCAGCTGTAAGGAGGCGGCAGACGGCTACCAGCGCTGTATGATGGCGCAGTACAACGGGCACG
ACAGCCCCGAAGATGTGAAGCGACGAGCCATGGCCGACCCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGC
GCCATTATCCTGGAACAGATGCAGAAGGACCCCGAGCACTCAGCGAACACTTAAAGAATCCTGTAAATAGCACAGA
AGATCCAGAAGCTGATGGATGTGGGTCTGATTGCAATTCGGTGGATGACTTGTTCATCCCCCTTCCCTTCGCCCT
CATGTGGAAGAGGAGCTGGGACCGCGGCGAGCAGCACGGAGCGGAAGGGAGAGCAGGGGAGAGAAGGCCTCATC
TCTCTATATTTATACATAACCCCGGGGAAGACACAGAGACTCGTACCTGCGCTGTTTGTGCCGCGCTGCCTCTG
GGCCCTCCCAGCACACGCATGGTCTCTTACCCTGCCCCTCGAGTTCCATGTCTCTTTCCCTGCCCTAGTTGC
TGTCTCGGCTGCTCTCCCATAGTTGGTTTTTTTTTATTTGGGGCAGTGGGCATGTTATGGGGAGGGGAGGGGGT
TCTTCCAGCCTCAGGTCCCAGCTGTCTCACGTTGTTTATTCTGCGTCCCCTTCTCCAATAAAACAAGCCAGTTGG
GCGTGGTTATAAC

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FIGURE 951

MEQVNELKEKGNKALSVGNIDDALQCYSEAIKLDPHNHVLYSNRSAAYAKKGDYQKAYEDGCKTVDLKPDPWGKGY
SRKAAALEFLNRFEEAKRTYEEGLKHEANNPQLKEGLQNMPEARLAERKFMNPFNMPNLYQKLESDPRTRTLSDP
TYRELIEQLRNKPSDLGTLQDPRIMTTLSVLLGVDLGSMDEEEEIATPPPPPPPKKETKPEPMEEDLPENKKQA
LKEKELGNDAYKKKDFDTALKHYDKAKELDPTNMTYITNQAAVYFEKGDYNKCRELCEKAIEVGRENREDYRQIA
KAYARIGNSYFKEEKYKDAIHFNKSLAEHRTPDVLKKCQQAEEKILKEQERLAYINPDLALEEKNGNECFQKGD
YPQAMKHYTEAIKRNPDAKLYSNRAACYTKLLEFQLALKDCEECIQLEPTFIKGYTRKAAALEAMKDYTKAMDV
YQKALDLDSSCKEAADGYQRCMMAQYNRHDSPEDVKRRAMADPEVQQIMSDPAMRLILEQMOKDPQALSEHLKNP
VIAQKIQKLMDVGLIAIR

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FIGURE 952

GCCGCTCGCTCGGCTCCGCTCCCTGGCTCGGCTCCCTGCCTCCGCTCGCAGCCCCGCCGTAGCCGCCTCCGAG
CCCCGCCGCACATCCTCTGAGAAGATGGCTGTGCCACCCACGTATGCCGATCTTGGCAAATCTGCCAGGGATGTC
TTCACCAAGGGCTATGGATTGGCTTAATAAAGCTTGATTTGAAAACAAAATCTGAGAATGGATTGGAATTTACA
AGCTCAGGCTCAGCCAACACTGAGACCACCAAAGTGACGGGCAGTCTGGAAACCAAGTACAGATGGACTGAGTAC
GGCCTGACGTTTACAGAGAAATGGAATACCGACAATACACTAGGCACCGAGATTACTGTGGAAGATCAGCTTGCA
CGTGGACTGAAGCTGACCTTCGATTATCCTTCTCACCTAACACTGGGAAAAAAATGCTAAAAATCAAGACAGGG
TACAAGCGGGAGCACATTAACTGGGCTGCGACATGGATTTGACATTGCTGGGCCTTCCATCCGGGGTGCTCTG
GTGCTAGGTTACGAGGGCTGGCTGGCCGGCTACCAGATGAATTTTGAGACTGCAAAATCCCGAGTGACCCAGAGC
AACTTTGCAGTTGGCTACAAGACTGATGAATTCAGCTTCACACTAATGTGAATGACGGGACAGAGTTTGGCGGC
TCCATTTACCAGAAAGTGAACAAGAAGTTGGAGACCGCTGTCAATCTTGCCTGGACAGCAGGAAACAGTAACACG
CGCTTCGGAATAGCAGCCAAGTATCAGATTGACCCTGACGCCTGCTTCTCGGCTAAAGTGAACAACGCCAGCCTG
ATAGGTTTAGGATACACTCAGACTCTAAAGCCAGGTATTAAACTGACACTGTGACCTCTTCTGGATGGCAAGAAC
GTCAATGCTGGTGGCCACAAGCTTGGTCTAGGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTTAAT
TTTAAACTATTTTGCAGCATAGCTACCTTCAGAAATTTAGTGTATCTTTTAATGTTGTATGTCTGGGATGCAAGTA
TTGCTAAATATGTTAGCCCTCCAGGTTAAAGTTGATTGAGCTTTAAGATGTTACCCCTCCAGAGGTACAGAAGAA
ACCTATTTCCAAAAAGGTCCTTTCAGTGGTAGACTCGGGGAGAACTTGGTGGCCCTTTGAGATGCCAGGTTTC
TTTTTTATCTAGAAATGGCTGCAAGTGGAAGCGGATAATATGTAGGCACTTTGTAAATTCATATTGAGTAAATGA
ATGAAATTGTGATTTCTGAGAATCGAACCTTGGTTCCCTAACCTAATTGATGAGAGGCTCGCTGCTTGATGGT
GTGTACAAACTCAGCTGAATGGGACTTTTTTAGACAGATCTTCATGACCTGTTCCCAACCCAGTTTCATCATCATC
TCTTTTACACCAAAAGGTCCTGACAGGGTGTGGTAACTGTTTTCTTTTGTGCCATTTTGGGGTGGAGAAGGTGGATGT
GATGAAGCCAATAATTCAGGACTTATTCCTTCTTGTGTGTGTTTTTTTTTGGCCCTTGCAACAGAGTATGAAAT
AGCTTCCAGGAGCTCCAGCTATAAGCTTGAAGTGTCTGTGTGATTGTAATCACATGGTGACAACACTCAGAATC
TAAATTGGACTTCTGTTGTATTCTCACCACCTCAATTTGTTTTTTAGCAGTTTAAATGGGTACATTTTAGAGTCTTC
CATTTTGTGGAATTAGATCCTCCCTTCAAATGCTGTAATTAACAACACTTAAAAAACTGAATAAAATATTGA
AACCTC

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FIGURE 953

MAVEPTYADLGKSARDVFTKGYGFGLIKLDLTKSENGLEFTSSGSANTETTKVTGSLETKYRWTEYGLTFTEKW
NTDNTLGTEITVEDQLARGLKLTFDSSFSPTGKKNAKIKTYKREHINLGCDMDFDIAGPSIRGALVLGYEGWL
AGYQMNFE TAKSRVTQSNFAVGKYTDEFQLHTNVNDGTEFGGSIYQKVNKKLETAVNLAWTAGNSNTRFGIAAKY
QIDPDACFSAKVNNSSLIGLGYTQTLKPGIKLTLSALLDGKNVNAGGHKLGLGLEFQA

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FIGURE 954A

CGCGTGTCTACGCGGACGCACCGGCTAAGCTGCTTCTGCCGCCGCCGCCGCTGGGACCTTGCGGTGAGGCTGC
GCGGGGCCGAGGCCGCTCCGAGCGCCAGGTTTATTCACTACCATGAAGCTGCTGCTGCTGCACCCGGCCTTCC
AGAGCTGCCTCCTGCTGACCCTGCTTGGCTTATGGAGAACCACCCCTGAGGCTCACGCTTCATCCCTGGGTGCAC
CAGCTATCAGCGCTGCCCTCCTTCTGCAGGATCTAATACATCGGTATGGCGAGGGTGACAGCCTCACTCTGCAGC
AGCTGAAGGCCCTGCTCAACCACCTGGATGTGGGAGTGGGCCGGGGTAATGTACCCAGCACGTGCAAGGACACA
GGAACCTCTCCACGTGCTTTAGTTCTGGAGACCTCTTCACTGCCACAAATTCAGCGAGCAGTCGCGGATTGGGA
GCAGCGAGCTCCAGGAGTTCTGCCCCACCATCTCCAGCAGCTGGATTCCCGGGCCTGCACCTCGGAGAACCAGG
AAAACGAGGAGAATGAGCAGACGGAGGAGGGGGCGCCAAGCGCTGTTGAAGTGTGGGGATACGGTCTCCTCTGTG
TGACCGTCATCTCCCTCTGCTCCCTCCTGGGGGCCAGCGTGGTGCCCTTCATGAAGAAGACCTTTTACAAGAGGC
TGCTGCTCTACTTCATAGCTCTGGCGATTGGAACCTCTACTCCAACGCCCTCTTCCAGCTCATCCCGGAGGCAT
TTGGTTTCAACCCTCTGGAAGATTATTATGTCTCCAAGTCTGCAGTGGTGTGGGGGCTTTTATCTTTTCTTTT
TCACAGAGAAGATCTTGAAGATTCTTCTTAAGCAGAAAAATGAGCATCATCATGGACACAGCCATTATGCCTCTG
AGTCGCTTCCCTCCAAGAAGGACCAGGAGGAGGGGTGATGGAGAAGCTGCAGAACGGGACCTGGACCACATGA
TTCTCTCAGCACTGCAGCAGTGAGCTGGACGGCAAGGCGCCCATGGTGGACGAGAAGGTCATTGTGGGCTCGCTCT
CTGTGCAGGACCTGCAGGCTTCCAGAGTGCTTGCTACTGGCTGAAAGGTGTCCGCTACTCTGATATCGGCACTC
TGGCCTGGATGATCACTCTGAGCGACGGCTCCACAATTCATCGATGGCCTGGCCATCGGTGCTTCTTCACTG
TGTCAGTTTTCCAAGGCATCAGCACCTCGGTGGCCATCCTCTGTGAGGAGTCCACATGAGCTAGGAGACTTG
TCATCCTGCTCAACGCTGGGATGAGCATCCAACAAGCTCTCTTCTTCAACTCTCTTCTGCTGCTGCTGCTACC
TGGGTCTGGCCTTTGGCATCCTGGCCGGCAGCCACTTCTCTGCCAACTGGATTTTTGCGCTAGCTGGAGGAATGT
TCTTGATATTTCTCTGGCTGATATGTTCCCTGAGATGAATGAGGTCTGTCAAGAGGATGAAAGGAAGGGCAGCA
TCTTGATTCCATTTATCATCCAGAACCTGGGCCTCCTGACTGGATTACCATCATGGTGGTCTCACCATGTATT
CAGGACAGATCCAGATTGGGTAGGGCTCTGCCAAGAGCCTGTGGGACTGGAAGTCGGGCCCTGGGCTGCCCGATC
GCCAGCCCGAGGACTTACCATCCACAATGCACCACGGAAGAGGCCGTTCTATGAAAACTGACACAGACTGTATT
CCTGCATTCAAATGTCAGCCGTTTGTAATAATGCTGTATCTTAGGAATAAGCTGCCCTGGTAACCACTCTCTAGCT
AGTGCCCTCTTGCCCTCTCCTACCTCCTTTCTCTCAGTGACTCTGGAACCTGAATGCAGCTTACAAGACAAGCC
TGACTTTTTCTCTGATTACCTTGGCCTCCTCTTGAACCACTGCTGAAAGGTTTTGAATCCTTTACCCAACAAT
GCAAAAATAGAGCCAATGGTTATAACTTGGCTAGAAATATCAAGAGTTGAATCCATAGTGTGGGGCCCATGACTC
TAGCTGGGCACCTTGGACCTCCAGCTGGCCAATAGAAGAGACAGGAGACAGGAAGCCTTCCCATTTTTTCAAAGT
CTGTTTAATTGCCTATTACTTCTCTCAAAGAGAACCTGAAGTCAGAACACATGAGCAGGGTGAGAGGTGAGGCAA
GGTTCATCCTGAATGGGAGAGGAAGTCGAACCACTGCTGTGTGTCTTGTTCAGGATGCTCACTTGTTCCTACTGAG
ATGCTGGATATTGATTTTGTAAACAGCACCTGGTGTTCACGGCTGTCCGAGTGAGCTAACGTGGCGGTGTGGCTG
CCTGGACCTCCTCTTTTCAAGTTAACGCTGACAGAATGGAGGCTCAGGCTGTCTGCAAGAAAACAGTTGGTTTGGC
TGTGATTTTGACCTCCTCTTCCCCACTGCCATCTTCTAAGAGACTTTGTAGCTGCCTCCTAGAAGCACATTCTGA
GCACATTTGAGACCTCTGTGTAGAGGGGAGACTGCACAACTATCCTCCCCAGGTTGAGACGTCTGCAGAGTG
GCAAGCTGACTTGTAGAAATGGGGTGCCATTTATGCTCTACTTAGACAAGGGTAATCAGAAATGGAATCAGTGCA
GGCAAAATTTAGGATTTGCCGCTTCCATAAATCAAAGCATGACTAATAGGGGGTCTCTGAAATGTAAGGGCACAA
ACTTCACTTAGGGCATCGCAGATGTTTGCAGAATGGTTGGCCTAATGATTATGCTACAGATGGGTTTTAAATGAC
CCGTCTAGGTTACTGCTTCTTGCAAAAAAGTCGAATCCTGCATTGAATTGAATATGAATTTCTCTAACTCTCT
CCAGAAAATGGATGGAGATAACTTGTCTTTAAACTGTAGGCCAGCCTTAGCCACTGTGGAGCCCTTGCCCTCCGA
GCTCTGGCTTCAAGGGGAGCTTCTCCAGGTTCACTAGGTGAATTGATTTATTATTATCATATTGATAATGTGA
GATTCTTTAGCCACTTTGGGGAGCCTGTCTCTCCAGAAGCCTTCTTAGTGGTGCCACAGTTGGAGCCAGGGG
CCATGTTTGCAAACTGATTATGTGCATGGCTGACAGGAGTACTGGTTCACTACCAATGCCCTGAGCTTTTCTCTT
ACATAGAAAACTGTCCACTCTCAGTAATCACAAGCAGCATCCGTTTTGTTTTCTCTTCTTGGGAGACATCTGTC
AAACCAGGAATATTCTTGAAAAGAACGTGAGCAGGAAAACTGCTGGTGATACTTTTTTAAAGTTTGTTTTTAT
CTTGCTGTGGCTTCAATACATTTGAGAATACGCTGAAGAGGGAAAAATTCAGTGATGGAGATTCTAGATTAA
TATCAGGACTGATTTCTGGTGGGATTATGGTCCAGTTTTACCAAAGAACCAATTCCTGAAATGTTGGAATCTAA
CTTTTATATTGTCATTATTATTGTTGTTTTAAACGGTCTTGTCTTTTCTGTTTTATTCTCAAGCTGCT
TTCAGGAGCTAGCAGAAAAATACTCAAAGTTGAAGACTCTGGAAGATTTTGCTTTAACCTAACTCGCATTGATGT

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FIGURE 954B

ATTAAATTTATAATTTTAGCATTCCCAATAGATCCTATCATTCCCTTAAACATAATACCCCTTGTCTTGGAGTAGA
ATACTAAGTTAGAGTTAGTGGATTTCTAGTTTAGGAGAGGAGCTCAAACTATAATCTTTAACAAATTGAAAAAT
GAAATAGGGTGTTCCTTTTGTGCACACCTATATTACCTTAAGAAATTCCTTCCATAGACAGCTGCCTCAA
AGGGAAATCCTCTTTAAACCGTAGTTGGCGCAGAGGTCAGTCCTAGTCGGAGCTTAGGAGGGGCGGAGACGCTCA
CATCGTCTGACTTGAGTCGCCACTGATTGTGGCAACAGCTTTCCTCATGAGTCAAAAATTGGCAATTTCTTTG
ATTTTAGTTGTTGAATTTGCTGTTTCAAGCATTTGTACATATTAGAAGTCTAAGGAGTAGCAAGTCAGTGGGAG
GACTTTTTCACCCCTGGCATTAGCAGCTTCGACCTCATTTTCCAGATGCACCAGCTCCTATTAATAAGTTAGCAA
GGAAAGTGATGTCACGTGCAGGAACAGTGAGGCAGGGACAGGGGTTCTGCTCCTTCTCACTTCACCACCGGCAC
ACAGCTTGCCCTGTCTTTGCCCCAAAGGTATTTTGTGTCTAGTGTCAAATTGGAGCTATTCTTCACITGGTCCT
TAACCTTGGGTTTTAAAAAGAAGGCTTCTCTGTTTGGGTAGCGTAAGAGCTGAGTATAGTAAGTCCTCTTCCAAA
GAGATGGCAATATGCTGGGCATCTACTTTAAAACAAAGTTGTCTGATTTTGCAGAGAGGTTAGGATTTTATTG
TTCTTATTTCCCTTTACAGTTCTGCAGTTCCATCACAGTATTTTTTAAATAACTCAGGTGTATGAGCAGAAAT
AGAAAAGAAAATTAACCTATGTGGACTGTAAATGTTTTATTGTAGATTCTATAAATAAGCTATATTCTGT

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FIGURE 955

RVYADAPAKLLLPPPAAWDLAVRLRGAEAAASERQVYSVTMKLLLLHPAFQSCLLLTLLGLWRITPEAHASSLGAP
AISAASFLODLIHRYGEGDSLTLQQLKALLNHLVDVGVRGNVTQHVQGHRNLSTCFSSGDLFTAHNFSEQSRIGS
SELQEFCTILQQLDSRACTSENQENEENEQTEGRPSAVEVWGYGLLCVTVISLCSLLGASVVPFMKKTFFYKRL
LLYFIALAIGTLYSNALFQLIPEAFGFNPLEDYVVSASVVFGGFYLFFTEKILKILLKQKNEHHHGHSHYASE
SLPSKQDQEEGVMEKLQNGDLDHMIPQHCSSELDGKAPMVDEKVIVGSLSVQDLQASQSACYWLKGVRYSDIGTL
AWMITLSDGLHNFIDGLAIGASFTVSVFQGISTSVAILCEEFPHELGDVILLNAGMSIQQALFFNFLSACCCYL
GLAFGILAGSHFSANWIFALAGGMFLYISLADMFPENVEVCQEDERKGSILIPFIIQNLGLLTGFTIMVVLTMYS
GQIQIG

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FIGURE 956A

GCTAAGAGGAGTCCCTGTGTGGGCAGCTGGAGCCTTCAGATTCTCTTCAGGGGAAGAGTCCACATCCCACCTCAT
CATGTCCCAGGAAGCCAGCGCCTCACGCGCTACTCCCAGGGTGACGATGACGGCAGCAGCAGCAGCGGAGGGAG
CTCGGTGGCTGGGAGTCAGAGCACCTGTGTTAAAGACAGTCTCTCAGGACCTTGAAGAGGAAATCCAGCAACAT
GAAGCGCCTGTCCCCAGCGCCACAGCTGGGCGCGTCTCTGATGCACACCTCTACTACAGTGAGTCGTGGT
CCACGAGTCTGGTTCCACCCAGGAGCTCCCTGGAGGAACTGCATGGTGACGCCAACTGGGGTGAGGACCTGCG
GGTGCGGAGGAGAGAGGCACGGGTGGCTCAGAGAGCAGCAGGGCCAGCGGGCTTGTGGGGCGCAAGGCCACCGA
GGACTTCTGGGCTCTTCTCGGGCTACTCCTCTGAGGACGACTACGTGGGCTACTCGGATGTGGACCAGCAGAG
TTCCAGCTCGCGGCTCCGAAGCGCGCTCTCACGGGCGGGCTCCTTACTCTGGATGGTGCCACTTCGCCAGGCCG
GCTCTTCAGACTTCTCTACTGGTGGGCTGGCACCACCTGGTACCGCTGACCACAGCTGCCCTCCCTCCTTGACGT
CTTCGTTTTAAACAGGCGCTTCTCGTCCCTGAAGACGTTTCTCTGGTTCTGCTGCCGCTGCTCTTGCTGACGTG
CCTGACGTATGGTGCTTGGTATTTCTACCCCTATGGGCTGCAGACATTCCACCCTGCTTTGGTTTCTTGTTGGG
AGCGAAGGACAGCAGGAGGCCGATGAGGGCTGGGAAGCCAGAGACTCATCGCCACATTTCCAGGCTGAGCAGCG
TGTTATGTCCCGGTACACTCTCTGGAGCGCGCTCTGGAAGCTCTTGCTGCTGAATTTCTCCAAGTGGCAGAA
GGAGGCCATGCGGCTGGAACGCTCTGGAGCTGCGGCAAGGGGCTCTGGCCAGGGAGGTGGTGGTGGCCTGAGCCA
CGAGGACACCTGGCGCTGCTGGAGGGGCTAGTGAGCGCGCTGAAGCTGCCCTGAAGGAGGATTTCCGCAGGGA
AACTGCTGCTCGCATCCAGGAAGAACTGTCTGCCCTGAGAGCAGAGCATCAGCAAGACTCAGAAGACCTCTTCAA
GAAGATCGTCCGGGCTCCAGGAGTCCGAGGCTCGCATCCAGCAGCTGAAGTCAGAGTGCCAAAGCATGACCCA
GGAGTCTTCCAGGAGAGCTCTGTGAAGGAGCTGAGGCGGCTGGAGGACCAGCTGGCCGGCTGCAGCAGGAGCT
GGCGGCTCTGGCACTGAAGCAGAGCTCGGTGGCGGAAGAAGTGGGCTGCTGCCCCAGCAGATCCAGGCCGTGCG
GGACGACGTGGAATCTCAGTTCCCGGCTGGATCAGTCAGTTCCTTGCCCGAGGTGGAGGGGGCGCGTGGGGCT
CCTTCAGAGAGAGGAGATGCAAGCTCAGCTGCGAGAGCTGGAGAGCAAGATCCTCACCCTGTGGCAGAGATGCA
GGGCAAGTGGCCAGGGAAGCCGCGGCTCCCTGAGCCTGACGCTGCAGAAAGAGGTGTGATTGGAGTGACAGA
GGAGCAGGTGCACCACATCGTGAAGCAGGCCCTGCAGCGCTACAGTGAGGACCGCATCGGGCTGGCAGACTACGC
CCTGGAGTCAGGAGGGGCCAGGTCATCAGCACCCGATGTTCTGAGACCTACGAGACCAAGACGGCCCTCCTCAG
CCTCTTCGGCATCCCCCTGTGTTACCACTCCAGTCACCCGAGTCATCCTCCAGCCAGATGTGCACCCAGGCAA
CTGCTGGGCTTCCAGGGGCCACAGGGCTTCGCCGTGGTCCGCTCTCTGCCCGCATCCGCCCCACAGCCGTTAC
CTTAGAGCATGTGCCCAAGGCCTTGTACCCCAACAGCACTATCTCCAGTGCCCCCAAGGACTTCGCCATCTTTGG
GTTTGACGAAGACTTCGAGCAGGAGGGGACACTCCTTGGAAGTTCACTTACGATCAGGACGGCGAGCCTATTCA
GACGTTTCACTTTCAGGCCCTACGATGGCCACGTACCAGGTGGTGGAGCTGCGGATCCTGACTAACTGGGGCCA
CCCCGAGTACACCTGCATCTACCGCTTCAGAGTGATGGGAGCCCGCCACTAGCCCTGCTTACTGGTGCCTGC
TGCCAGCCATCTGGGAGTGGGTGAACAGCACCCCGCCGCTTCCCCCACACGCTTGCTCGGCGCTCTGACTTCTAG
GAGCACAAGAGAGGAGCCTGTGGCCCCATGCAGATGAAAAGGACGGGCAGGGTCTCCTGAGCAGCAGGTGGCTCG
AGGCGGTTAGCAGGCTCCAGCAGCTCCCTTCTTCTTCTCTGTGCCCGTGGCGTCTGCTTCCCATCCTGGGAG
TGTGTATATATGTAGCATATCATGGGGACTGGGAAGTTGGGAGAGGTAGGACCTGACTGGTCTTGGCTGGGGTC
AGGGGCTGGTGCCTGGGAGCTGATGAAGCAGGTGCCAGGGCTGTGGGAGGGGCAAGCTACGGCCTGGGCTAGGTG
AGCTGCCTCTGCCCTGGGCAAGGAAGCGAGGCCCTCTGGGAGGAGGGTGTAGCTCCAGAGCAGGATGGGACT
TCCCCAGGCAGGAAGCACTTGATGGAGAGCTGCCAGCTCTCCTACAAGGTTAGTGCCCTCCACCTAGGGAAGCC
TGAACCACAGGGTCCCTGAGGGCCTTCGACAAAAGTGTGTATTTGTCCGGGGAGGGTAGCAGTGGGCCATGGGG
CTTCTTGTGCCCTAAAGGGGACTGGCTGCTGTGATCTTCTAAGGGGCCCAGGGCCAACCTGTAGGCTTCCCCTC
TGCTGGGGACGGTAGTTGCTTTTCTCTCTCTGATGCTAGGTTGGGGCCACCCTGCTCCTGTCTCTGCTAGGG
CCTGCCAGTGCCCCGAGCTTGTCTTCCACATTCTCCAGGGTATGGAGACCTAGACCTGTCTTTGGGGCCATTA
GCATCTGGGGTTATAGCAAGAAGAGTGGGGAGCATGGAACCTCTGGGCTCTTGTGGGGACGTTAGGGTATCGGG
GTGCGAGGTCTGTCTGCACCGGCCCCCACATCTAACCAGGCCCTGATGTAGGGGTCGTCCGCTCAGGCTGCCCCC
TTGGGCTCTTGCAGCTCTTGTTCAGGTAGTCGCCCTCTGGTTTGTCTCTGTGGGGCAGTTGGTGGGGCTGGG
GGAAGAGGCTGGCAGAAGTTACCCTGGATAGGGAAGGGGGAGGAGGGGACTTTTAGAGCCAGCAGGCCCCACTGT
ATTATGTATATATTTTCAAGGCTGTTTTCTAAGTGAAGGCTAAGGGCTTGATTCCTAGCCCCGTCTGTGTGG
GGCACTGGGTGATACTCAGTTTCTTGTTCCTGGCGTGGAGAGGGGCTGGGGCACTGGTTCCGGCTGTGTCTGG
TGGTCCGGCTGCAGGGAAGGGGCAAGAAGGCGGGCAGGCCCTTCACTGCAGCACTGAGCCTCAAATCCGCTCTGGA

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FIGURE 956B

GCATGAGGCTGGATGCAGTGGTGGTGAGGCCGCCCCGCTCCATCCCGAGGCAGCCAGGCTTTGTTTTGCGCTCTC
CTGTCACAAATGCTGCACTATTGGTTCTTAAGTTTTTTATCTCCAGATCCTAATTTATGCCTATGCAAAAAATAA
ATGACGCCCAAGAGCTG

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FIGURE 957A

GTAAGATTTTTAAACCAAGGAATGACTGGGCTATCTATAAACCCAGATGCACTAAGTGGGGAGAAAAGCTCGGAG
CTGCAGCATATCAGCTTTGTCAACCTGCCAACAGCAGAGCGTACCATGCTGCAAGGAGTAATAACAAGGAATTA
GAAAACTCGCTGCTGGAGAACAGTCAAATTAACACCTTTTTGAAAGGATGAGCATGTATATATTGCAGTTCTAT
TAAATGTAGCTTCTTAGTGAGGTTGGCATTATGTTAAGGCTGGTATGGAAGAGAACTGATGAAGCAGGAGTGGTC
TGGTGACATTTTTCTGACTTGATTGGCTGGGGCGTGTGATGTAATAGGTTTCAGTGCAGCCCTTATAGGTTTTA
AAATGAATTCCAAGACACCATTACAAAGAAAGCCGGACTCTTTCTTATAACTGAGCTCAGCCAAGGAACTCTT
GCACAAATGTACAATACTGTTTGAATATGGAAGACCTGGATTTAGAATATGCCAAGACAGATATAAATTGTGGC
ACAGACTTGATGTTTTATATAGAAATGGACCCACCAGCACTGCCTCCTAAACCACCAAAACCTACTACTGTAGCC
AACACGGTATGAATAACAATATATCCTTACAAGATGCTGAATGGTACTGGGGAGATATCTCGAGGGAAGAAGTG
AATGAAAACTTCGAGATACAGCAGACGGGACCTTTTTGGTACGAGATGCGTCTACTAAAATGCATGGTGATTAT
ACTCTTACACTAAGGAAAGGGGAAATAACAAATTAATCAAAATATTTTCATCGAGATGGGAAATATGGCTTCTCT
GACCCATTAACCTTCAGTTCTGTGGTTGAATTAATAAACCACTACCGGAATGAATCTCTAGCTCAGTATAATCCC
AAATTGGATGTGAAATTACTTTATCCAGTATCCAAATACCAACAGGATCAAGTTGTCAAAGAAGATAATATTGAA
GCTGTAGGGAAAAAATTACATGAATATAACACTCAGTTTCAAGAAAAAGTCGAGAATATGATAGATTATATGAA
GAATATACCCGCACATCCAGGAAATCCAAATGAAAAGGACAGCTATTGAAGCATTTAATGAAACCATAAAAAATA
TTGAAGAACAGTGCCAGACCAAGAGCGGTACAGCAAAGAATACATAGAAAAGTTTAAACGTGAAGGCAATGAG
AAAGAAATACAAAGGATTATGCATAATTATGATAAGTTGAAGTCTCGAATCAGTGAAATTATTGACAGTAGAAGA
AGATTGGAAGAAGACTTGAAGAAGCAGGCAGCTGAGTATCGAGAAATTGACAAACGTATGAACAGCATTAAACCA
GACCTTATCCAGCTGAGAAAGACGAGAGACCAATACTTGATGTGGTTGACTCAAAAAGGTGTTCCGCCAAAAGAAG
TTGAACGAGTGGTTGGGCAATGAAAACACTGAAGACCAATATTCACTGGTGGAAGATGATGAAGATTGCCCCAT
CATGATGAGAAGACATGGAATGTTGGAAGCAGCAACCGAAACAAAGCTGAAAACCTGTTGCGAGGGAAGCGAGAT
GGCACTTTTCTTGTCCGGGAGAGCAGTAAACAGGGCTGCTATGCCTGCTCTGTAGTGGTGACGGCGAAGTAAAG
CATTGTGTCTATAACAAAACAGCAACTGGCTATGGCTTTGCCGAGCCCTATAACTTGTACAGCTCTCTGAAAGAA
CTGGTGCTACATTACCAACACACCTCCCTTGTGCAGCACAACGACTCCCTCAATGTACACTAGCCTACCCAGTA
TATGCACAGCAGAGGCGATGAAGCGCTTACTCTTTGATCCTTCTCCTGAAGTTCAGCCACCCTGAGGCTCTGGA
AAGCAAAGGGCTCCTCTCCAGTCTGATCTGTGAATTGAGCTGCAGAAACGAAGCCATCTTTCTTTGGATGGGACT
AGAGCTTTCTTTCACAAAAAGAAGTAGGGGAAGACATGCAGCCTAAGGCTGTATGATGACCACAGTTCCTAAG
CTGGAGTGCTTATCCCTTCTTTTTCTTTTTCTTTGGTTTAAATTTAAAGCCACAACCCACATACACACAAAGAG
AAAAAGAAATGCAAAAATCTCTGCGTGCAGGGACAAAGAGGCCTTTAACCATGGTGCTTGTTAATGCTTCTGAA
GCTTTACCAGCTGAAAGTTGGGACTCTGGAGAGCGGAGGAGAGAGAGGCGAGAAGAACCTGGCCTGAGAAGGTTT
GGTCCAGCCTGGTTTAGCCTGGATGTTGCTGTGCACGGTGGACCCAGACACATCGCACTGTGGATTATTTCAATT
TGTAACAAATGAACGATATGTAGCAGAAAGGCACGTCCACTCACAAAGGACGCTTTGGGAGAATGTCAGTTTCATG
TATGTTTCAAGAAATCTGTCTATAGAAAGTGCCAGAAAGTGTTTAACTTGTCAAAAAACAAAACCCAGCAACA
GAAAAATGGAGTTTGGAAAACAGGACTTAAATGACATTGAGTATATAAAATATGTACATAATATTGGATGACTA
ACTATCAAAATAGATGGATTGTATCAATACCAAAATAGCTTCTGTTTTGTTTTGCTGAAGGCTAAATTCACAGCGC
TATGCAATTCTTAATTTTCATTAAAGTTGTTATTTTCAGTTTTAAATGTACCTTCAGAATAAGCTTCCCCACCCAG
TTTTTGTGCTTGAATAATTGTTGTCGGGATTTTTGTTAATATTCATTTTTGTATCCTTTTTTAAAGTAAA
TGTACAGGATGCCAGTAAAAAATGAGCTTCAGAAATTAACCTATGAAATATTTTACAGTTTTTCTTGTA
CAGAGTACTTGGCTGTTAGCCCAAGGTTAAAAAGTTCATAACAGATTTTTTTGGACTGTTTTGTGGGCAGTGC
CTGATAAGCTTCAAAGCTGCTTTATTCAATAAAAAAAGAAATGAAAAGATATATGAATATGACAAAGTATTGC
TGAGTCCAACAATGTTGTTTTAAGACTCTTAAATACGGTACCTGGCAATGTTTTATTTCATAAAGAAATGTGAAC
TTCTTGAATCTAGGGAGGGGAATGTAGTGAAGGATGTATCAAGTGGGGTGGTGGGAGGGGAGGCAAGGTTAT
ATGCACCTTCTCATGATTACAGAGAAGTGAATAACTGCAAGTGAAGTTGCTTCTTCTACTTCAGTCTTCTCTC
ACTTTGATTGTAGTTGTTATCAATTAATGACAATTACAAACCTACTGTATCTCTAATACAGTGTGACTGGTCA
GGTATTTTCAGTTCTTAGGAAGGAAGTGCCAAGTTGTTTTGGGTTCTGGAACAGCGCTCACCTTTGTTTAGAA
CACTGGTTTAAAGGGATAATCATCTCTGTACATTAGACTATCCATCATGACCAGCAAATACTCATTITAGGAAA
AAAAAAGCATGATCTGAAAAATACTTTTGGTGGTATGTTGGTTACCCTCCTAGCTTTCCATTGGTTAGAACA
TAAAGCAAATAGACACAGTCATACTGTCACTGCTCTGGACTGTGTGGAGCTCGCTAAAGTCATGGTCATTGCAGG

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FIGURE 957B

AAATCCAAGTGGCAGTCCTTCTCATTCAATCATTGTATGTGCTTCACTACGGGGGGGAGAAGGAAACGTTA
GCATCATGTTTCCCATTTAGGGCAGGAGTGAGAGGTCTCTCTTCTGATTAGATATGCAAAAGCTGGTATGTTT
AGTAGGAAGTGTACATGTGTTGGGAGGCATAAAGACTAATTAGCAACCATAATATGGTCACTACCCTAATAGACT
AAATGAAATCTTGCAATTTCAAATTACTCTTTCTCCATATTAGATTTACCCACAGCTATATTTCTGTTTAAAGTAC
TAGGGTGAGGGTTTTCTGTTACTTTGTTTTTAATGTTGTTCCCTTTTGAAAGAATCAGICTTGAGCTGAGTGAA
AAATCTGTGGAATGIATTATTTGTCCTCTTTACATGAACTACTCATACTTAAGCAAAAGTCAGTCTTATAGCAA
GACTGTTAGCCCTCAAACCTTGACTCTACTGATCTGACCATTTCCCTCTCATCGCCAGACAAGTACGATTTCCCT
GGTTTTAGTCTGCGTCTCTGCTTTAAAGTTATTGTGATATCCTTCTAGATCATAACAAGTCTAACAGTTAATTA
GTTAACAGTTTTTAAACTAGGTTTGTTGGGTATTTTTTGGTAGCACATGTATGCTATTACATACAAATTTTTATT
TCTAAAATATAAGATCTGAGATTGAATATTTTCATTAAGGCTACAGTTTTGTGAATCTTTGTGCTTCAACATTC
TTTGCAAGATGATACGGTATTTAGGCATTTGCCTTATTTTTGCATCTCACAAACATAAGTGAATAGATCTTTTC
ATTGAACAGCAAAAGTAGGATTCATCATTCCATATGACTTGAGTTACACCAGACCTGTTCTGCCCAATGCCTTTTT
GATTACAGTGTAGCTTGCCCAACCGCATTTGTCGTTTTAGATACTTTGCTAGCCGGCCACTTTGGATTTTCATCAGA
CAGTCCTAACAAATATTGTCTGAACGGCTGAATATGAATAGATACAGCAGAGGCACTCCTGATATATGATTTTTAT
CCATGCGTCAGTTTTTCCCAACCCAGTGTAGCATCCTAAAGATAAAGCCAGAAGCTAAGCTGCAGTGAGGCTGTGA
TTGGGCGTAGAAGTGGGAGCATTTGGGACCTCACATTACACACACGAGAGATCATAACCATGTGAAAAGGCCAAAA
GCATGTGTTTGCAACATCTGATAACTTCATGGCCTTTGATAAATGTATATATGTATATGTGCATGGACTGTGTTT
CCAGTACACCTTTTCAGCCAAAACAGATCCACAGTAGTTGTTGAGTTCAAGTACATAAAGTACATAACAAGCGAAC
GTCTAGTACAATTCTTACTTATGTGTATGGGATTTTTCCCTTTGAGGTTGCTTTGTTTTGTCTTACAAAGGTGAA
AATTGTTTGTAGTGAAGTGAGAAGTTCAIATTTCTTTGGCTTTTTTGTGTTTTTAAAAGTTACTCCTTTTAGGG
AGCTGGTCTGATGACTTGCTTAGCTTGGAATCCTTGTTTTCAGTGTGTCGAGTCAAATGTGTTTATGTGAGCT
GTCAGTGTGGGGAACCAATTGCTTTGTCATATAGCTGGTTATGAACTAGTAACATGTTTGGGAAGTCCTACTGAT
GTTCTTTTGAAGAAAAAATCTGCTGGTTTTAACAAGTGTGCTTTTGCTATGTATGGTATCCAAGTTAGTTGAAA
TGCAGACACTGAGATCTGTTTGAAGTTAGGGTCATTTTTAGAAAGGGGCAGTTTAAAGCACAAATGTCTCACATGG
GACAAAGTTCCAAAATGCCAAATCTTATTTTTTAAAAGCTAGTTCTATAAAATAGTGGTATTATGGGTGGGGA
GGAAATAGAAATTGAGTCAATTGGAAAGACTATCCAACCTTAACATGAAACTTGTCAACATGAGATAGCATTAGCTG
CCCAGGATGCTGCTATATATATATATGTATT

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FIGURE 958

MYNTVWNMEDLDLEYAKTDINCGTDLMFYIEMDPPALPPKPPKPTTVANNGMNNNISLQDAEWYWGDISREEVNE
KLRDTADGTFLVRDASTKMHGDYTLTLRKGGNNKLIKIFHRDGKYGFSDPLTFSSVVELINHYRNESLAQYNPKL
DVKLLYPVSKYQQDQVVKEDNIEAVGKKLHEYNTQFQEKSRDYDRLYEYTRTSQEIOMKRTAIEAFNETIKIFE
EQCQTQERYKEYIEKFKREGNEKEIQRIMHNYDKLSRISEIIDSRRRLEEDLKKQAAEYREIDKRMNSIKPDL
IQLRKTRDQYLMWLTQKGVQRQKLNELGNENTEDQYSLVEDDEDLPHHDEKTWNVGSSNRNKAENLLRGKRDGT
FLVRESSKQGCYACSVVVDGEVKHCVINKTATGYGFAEPYNLYSSLKELVLHYQHTSLVQHNDSLNVTLAYPVYA
QQR

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FIGURE 959

GACCGAAGCAAGAGCTGGTTTCAGGTGGCAGCCACAGCAGCCTCAGGGACCTCAGCAACTATGGCCTCCTGCCCAG
ACTCTGATAATAGCTGGGTGCTTGCTGGCTCCGAGAGCCTGCCAGTGGAGACACTGGGCCCCGCGATCCAGGATGG
ACCCAGAATCTGAGAGAGCCCTGCAGGCCCTCACAGCCCTCCAAGACAGATGGGAAAGAATTAGCTGGGACCA
TGGATGGAGAAGGGACGCTCTTCCAGACTGAAAGCCCTCAGTCTGGCAGCATTCTAACAGAGGAGACTGAGGTCA
AGGGCACCCCTGGAAGGTGATGTTTGTGGTGTGGAGCCTCCTGGCCCAGGAGACACAGTAGTCCAGGGAGACCTGC
AGGAGACCACCGTGGTGACAGGCCTGGGACCAGACACACAGGACCTGGAAGGCCAGAGCCCTCCACAGAGCCTGC
CTTCAACCCCCAAAGCAGCTTGGATCAGGGAGGAGGGCCGCTGCTCCAGCAGTGACGATGACACCGACGTGGACA
TGGAGGGTCTGCGGAGACGGCGGGGCGGGAGGCCGCCCCACCTCAGCCCATGGTGGCCCTGGCTGTGGAGAACC
AGGCTGGGGGTGAGGGTGACAGGCGGGGAGCTGGGCATCTCCCTCAACATGTGCCTCCTTGGGGCCCTGGTTCTGC
TTGGCCTGGGGGTCTCTCTCTTCTCAGGTGGCCTCTCAGAGTCTGAGACTGGGCCCATGGAGGAAGTGGAGCGGC
AGGTCTCTCCAGACCCCGAGGTGCTGGAAGCTGTGGGGACAGGCAGGATGGGCTAAGGGAACAGCTGCAGGCC
CAGTGCCTCTGACAGTGTCCCCAGCCTGCAAAACATGGGTCTTCTGCTGGACAAGCTGGCCAAGGAGAACCAGG
ACATCCGGCTGCTGCAGGCCAGCTGCAGGCCAAAAGGAAGAGCTTCAGAGCCTGATGCACAGCCCAAAGGGC
TAGAGGAGGAGAATGCCAGCTCCGGGGGCTCTGCAGCAGGGCGAAGCCTCCAGCGGGCTCTGGAGTCAGAGC
TGCAGCAGCTGCGGGCCCGCTCCAGGGGCTGGAGGCCGACTGTGTCCGGGGCCAGATGGGGTGTGCCTCAGTG
GGGCTAGAGGCCACAGGGTGACAAGGCCATCAGGGAGCAAGGCCCCAGGGAGCAGGAGCCAGAACTCAGCTTCC
TGAAGCAGAAGGAACAGCTGGAGGCTGAGGCACAGGCATTAAGGCAAGAGTTAGAGAGGCACGGACGGCTGCTGG
GGTCTGTACAGCAGGATCTGGAGAGGAGCTTGCAGGATGCCAGCCGCGGGGACCCAGCTCATGCTGGCTTGGCTG
AGCTGGGCCACAGATTGGGCCAGAACTGCAGGGCCTGGAGAAGTGGGGCCAGGACCCTGGGGTCTCTGCCAATG
CCTCAAAGGCCTGGCACCAGAAGTCCCCTTCCAGAATTCTAGGGAGTGGAGTGGAAAGGAAAAGTGGTGGGATG
GGCAGAGAGACCCGAAGGCTGAGCACTGGAACATAAGAAGGAAGAATCTGGCCGGGAAGGAAGAAGAACTGGG
GAGGTGAGGAGACAGGGAGCCAGCAGGAAGGTGGAAGGAGGGCAGGCCAAGGGTGGAGGAGTCCGGGAGCAAGA
AGGAGGGCAAGCGACAGGGCCGAAGGAACCCCCAAGGAAAAGTGGTAGCTTCCACTCCTCTGGAGAAAAGCAGA
AGCAACCTCGGTGGAGGGAAGGGACTAAGGACAGCCATGACCCCCCTGCCATCCTGGGCAGAGCTGTTGAGGCCCA
AGTACCGGGCACCCAGGGCTGCTCAGGTGTGGACGAGTGTGCCCGGCAGGAGGGCCTGACTTTCTTTGGCACAG
AGCTAGCCCCAGTGCGGAACAGGAGCTGGCCTCTCTGCTAAGAACATACTTGGCACGGCTGCCCTGGGCTGGGC
AGCTGACCAAGGAGCTACCCCTCTCACCTGCTTTCTTTGGTGAGGATGGCATCTTCCGTATGACCGCCTCCGCT
TCCGGGATTTTGTGGATGCCCTGGAGGACAGCTTGGAGGAGGTGGCTGTGCAACAGACAGGTGATGATGAAG
TAGATGACTTTGAGGACTTCACTCTCAGCCACTTCTTTGGAGACAAAGCACTGAAGAAGAGGTGAGGGAAGAAGG
ACAAGCACTCACAGAGCCCAAGAGCTGCGGGGCCAGGGAGGGGCACAGCCATAGCCACCACCACCACCGGG
GCTGACACCCCTGCCCCACAGGGAATGGCCTTGGCCTGGCCCAGCCCAAGATCCCAGCGTTATCTAACTCCTGGAG
GGTGGACTCTGTCTGGCTTGTTTGGTGTCTCAGATATCTTTACACAGTAGAGCAAAATCACCAGCCCTGCAC
TGATGTCACTTTATGTAGAAAAGGCCCTTAGCTGGACCTGCGTTGCCGTCTATGCAAAATGCATGCAAAATACTCCA
GGCCCTGGGATGTGGGCTTGTGTTTGTCACTGTGAAGGGGAGATGGGAGAGGAGCCTGTTTGGGGTGGGGT
TGGGGAAGGCAATCTGATTCTGAAGCTAAAGAGCTTTCATCCTCTTGAGTGTATGTCCCCATAGTGGGCCCCCTG
ACCCACATGCTGACCGGTGCCTTGGGATTTGACTAGAGTTGCTGGCTCGAGGCCAGCAGGAGACTTACCCTGG
GGTTTGTAGGTTTGAAGCAGCTGTCCCTAGGGGGTGAAGTCCCCCCCCCTTTTTTTTTTACCCTGCTTCTC
CCACGGCTTCACTCCTATGTGAAGTGTAGACTCAGATCCCAATAAAGTGTGTGACGCTATGATGCTAGGTG
GTTCTAAGCACAGGGGACACCCACACCCCTGCCTGAATGGATGGGTCCATCCCAGGCACTGGTACTTGGCCC
CTTGTCTGTATCCCCCTTGGCCTTGCCTTGCCTTCCAACAAACCTAGGCCCTTGAGAAGCTGATACTTCTC
CTTTGCTCACAGCTGCCTTGGCCCCACCCCTGGGAGATGTAGCAAATTGAGTGTGGGTTTTGGAGTCTGAGCCT
CAGGCTCAAATCCAGGCCAAGTGATCTTGGGCAAGTTAATCTCTGGGAACCTTGGGTTTTCTTATCCTCAAAAAAG
CGGATGGAAGGGCTGGGGAAGTGATTAAATAAAGCAACGCAAGAAAAAAGAAAAAAGAAAAA

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FIGURE 960

MASCPDSDNSWVLAGESESLPVETLGPASRMDPESERALQAPHSPSKTDGKELAGTMDGEGTLFQTESPQSGSILT
EETEVKGTLEGDVCGVEPPGPGDTVVQGDLOETTIVTGLGPDQTQDLEGQSPQSLPSTPKAAWIREEGRCSSDD
DTDVDMEGLRRRRGREAGPPQPMVPLAVENQAGGEGAGGELGISLNMCLLGALVLLGLGVLLFSGGLSESETGPM
EEVERQVLPDPEVLEAVGDRQDGLREQLQAPVPPDSVPSLQNMGLLLDKLAKENQDIRLLQAQLQAQKEELQSLM
HQPKGLEENALRGALQQGEAFQRALESELQQLRARLQGLEADCVRGPDGVCLSGGRGPQGDKAIREQGPREQE
PELSFLKQKEQLEAEAQALRQELERQRRLLGSVQQDLERSLQDASRGDPAHAGLAELGHRLAQKLQGLEENWGQDP
GVSANASKAWHQKSHFQNSREWSGKEKWWDGQRDRKAHWHKKKEESGREKKNWGGQEDREPAGRWKEGRPRVE
ESGSKKEGKRQGPKEPPRKSGSFHSSGEKQKQPRWREGTKDSDPLPSWAELLRPKYRAPQGC SGVDECARQEG
TFFGTTELAPVRQQELASLLRTYLARLPWAGQLTKELPLSPAFFGEDGIFRHDRLRFDRFDVALEDSLEEVAVQQT
GDDDEVDDEFDFIFSHFFGDKALKKRSGKKDKHSQSPPRAAGPREGHSHSHHHHHRG

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FIGURE 961

CTCTTCTCACATCAGCGGCTCCAGGCCCAACCGACAGACTATGGGGGCTCCTTCACCAGGCGCTGCGTGAGTGG
CTGCTGGGCTCTACTTCCTCAGCCACATCCCCATCACCCTGTTTCATGGACCTGCAGGCGGTCGTGCCGCGGAG
CTCTACCCAGTCGAGTTTAGAAACCTGCTGAAGTGGTATGCTAAGGAGTTCAAAGACCCACTGCTACAGGAGCCC
CCAGCCTGGTTTAAAGTCCTTTCTGTTTTGCGAGCTTGTGTTTCAGCTGCCTTTCTTTCCATTGCAACGTATGCC
TTCTCAAAGGAAGCTGCAAGTGGATTGCAACTCCTGCAATCATCTACTCTGTTACACCATGACAACCTTAATT
CTGATACTCTCCACATTTCTGTTTGAGGATTTCTCCAAAGCCAGTGGTTTCAAGGGACAAAGACCTGAGACTTG
CATGAACGGTTAACCCTTGTGTCTGTCTATGCCCCCTACTTACTCATCCATTCATACTTTTAATTTTCATGTTG
CGGAGCCCCCTACTACAAGTATGAAGAGAAAAGAAAAAATGAAGGAAACAACCACTGGCCAGGGTAGAGAT
GCCTACAGGGTGGTTGCTTGTGGATACATACAGGAACACTGCTCAGAACCACGTCTTCAGCAGCATTTGAAAC
ACTGGCAGCAATGCACAAGAGCAAGATGGTGTGAGGAACCATGTCAAACCTCACCTTCTTCCATTTTTTTTTT
TTTTTGAGACAGTCTCACTCTGTTGCCAGGCTGGAGTAAAGGGCAGTGGCATGATCTCGGCTCACTGCAACCTCC
GCCTCCTGGGCTCAAGCCATCTTCTTAGCCTCCCAAGTAGCTAGAACTACAGGTGTGTACCAACACGTATGGCT
AATTTGTTTTGTTTTTTTTTGTGTGTGTGGAGACAGGGTTTTGCCATGTTGCCAGGTTGGTCTCGAACGCCTAGG
CTCAAGTGATCTGCCCACCTCAGTCTCCCTAAGTGTGGGATTACAGACGTGAACCACTGGGCCCAGCCCAAACC
TTCACCTTCTAAGGGCACTGGGATGAACAGACCGATCGGCTTGAGGGTGGGCAAAGGGGTGTGGGCTAGGTTATA
AGGAAGTGGTACCAATAACTGTGTTGCCTGAGTTCCACCGCAAGATTACTAAAAGCAGGACCAGACCAGAACT
GCTAAAGAACATGGCCTGTTTGACATGTTTCATGAGTCACCTGACCCACAGCATATATGCTTATGACTAAACCCTC
CACTCCTGATCTCAAGAGTGTATCACCTGTGAGCAAAATGAATAGTGGGATATTTTGGGCCATTTTAAATGTGA
AATTTTGCTCTTTAATGTTAATTCAAACCTATATCAATGTTTTCTTGTTCACCTCTAACCCAAGGAAAAAAG
AGAAAACATACTATGCAAAGGAAGTTTAACTTAAGTTTTCTTAAGGGTCAGCCCAACAATGACTTTCAGTCAA
ATGGATTAAACTGGAAATGTTTTGTTTTCTGTTGTAAACAGATCATCTAGGCGAAAGTTTTTTTTGTTTGT
GCTTTTAAATTAGTTTATTTCTAAATCTTAGTCTTCCACATTTCTAGAGGCCACCTGACACAAGTCCCTGTATCT
GAAGTCTAGCATCTCAAGGCTGATCTGGAAGTGTGCTAGTATGCTCCCTAGTGGATAACTTAATCTTTAATACA
GTTCCGTCATTCCCCTCTGTTTTCAGAAGAGAAGGTGGCTACAGCCAGGCATAACTTATCCACTGTGTGCATAG
AGGGTCTCTTACGTTGATGCTTGGCATTCCATCAGCTTTCTTAAGTCTTTGCTCAAGTTCAAGGTTAAATGA
TGTTAGACAACAGGTCCCAGTCAGTCCCCTCTATTTTACCCATTTTGCTCACAAGCCATATTGGCCCGATTAGT
GGTACTGTCTGACTCACGTGTGTGATCCAAATAAAGGTAGCTGCCGGGAATT

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FIGURE 962

GGCTTACAGGAGGGCAGCTCTGCAGTTGGGAGGGGCACCGTCCGGAGGAGACCAGGCCTCTACACACCCCCCACT
CTACTTATCATCCCTGCTCACACACCCTTGTCGAAGGCTTTATGCATCGGATTATTTTTCCAAATCAAGAGGAC
AGTGATAGATGCATTTTCCCCAGGCTGTCTCAGAAAGGTCGCTAAATGTATACTGTTGTGAGAATTGCTGAGATC
TCCCCCACTTTTGGTTTTTGCAGCAGTAAAACTCTTTCCACTGTGACTTATTTTCTCTCTCAGGCAGCCAGCC
ACCTGGTCCCTTGCTGCTGACTCTAGCACAGTGGCCAGGATCCAATACGAGTCCAGGGGTGACCGCAGGATGGTGG
GGGCAGCGGGCTTCTCCACCTACCCCAGCCACCAAGGCCCTGACGCACTGCCTCCTGCACCTTCAGCACATCCCT
GTGCACAGCTGGAAGGGTGCATGGCCCGCTCACCTTTGTTTCAGATGGGTGGAAACGCTGATGATACCAGCTCCTC
CCTGCCGTGCCCCCTGCCACGGAGCAGGCATTGTGAAGTGGCTGGTGGTTTGCAGTCCACGTTGGCATGGCCTCCAG
CCCAACCCACAGTGGAGACTGGAGACAGGGCAATGAGTCTGGTGGGGGCACGTGGACATGCCCCATAGGAGGGCCC
CACCCAGACTTAACAGGCAAGGTCTGGGCATTGCGCGACGCAGGACTCAATGCTAAAGCAAGCCTGCCTGGCTC
TGTGCCAGGGCCCCCTCTTCTGATTACACATCCCATTTTTACACAGACCCTTCTTCTTAATAAAGGCTGACAGT
TCTGTTGGCAGCCAAGAACCACACCATGAAGACAGGGAGTGAGGGGCCTTTGTGCCCAACTCCAGCACAGCTGC
GTTCTGGGGTGTGTGAGAGGCATGTTTCGTGTCTGTGCGCTGGTGGTCTCGTGAGACAGTTCGAGGACGGGGAAA
TTGAGGGTGGTGGGGCGTGAGGCTTATATGTGGAAGTATGTCAGAGTTCGCCCTGCAGACGGATCTGGATATAC
ACTATGTATAATTGTTACGTGTAATTTAAATATATCTGTTTGCATCGTCATGAGAAGATTATATGTAAGGCTC
TGAAGGGAGAGGGAGATGTACATTCTGCCAGGCTCCTGGGGACCTTATCCGAGTCATGAAATTGATGACTGTTGA
TCCAGTGGTGCAAGAAGCTACACTCCATGTGTATCAGCTTATGACTCCTAATGTATTTTTAAGGCAAAAAATG
TCAGCCGACTCCATCTTACCCCTCGATTCTCGAGTCCAGCCTTTCTGTGCCAGTGCTTCACTGAGCCACAACG
CTCTCGCCATCGGGACCCGGCTGGGCCTGGAGTCTCGGGGCACAGTTGCCATGGAGCCCTCCTGGGTCATTCTAC
AAATGTGCTGAGTGCCAGCTGAAAACCCACAGGAGATGGAGTACCTTGGCCAAGCTTAAAGAGAAGATTTCTC
AGGGTATTTATTAGTGTGTCCAGCAGGGTCAGGAAGCAGGATGGAAAGATGCATTGAGACTGTTAATTTATTAAC
AAGGCAAAATGATTTTGTGTTTCTTGATGACAGACTATTAAGTTTGGGACTTATTTTCCCATTTGAGAAGTTATAA
TATATATTTAAGATGATAAGTTTCTGCTTAAGTTGTGCCTTTTCACTTCAATGAGTTAAGGAGCACTAAGGGT
AATGATACCAATGAGGGTTGGTTTATTATCAAACCTGAATAGCTGTGGTTTCTCCAGTAAATATTTTCTTCTACT
GAACATGGAGCCATTATTAAGAGTTGTGTGTTTTTATTATGTACATTGTATATTTTTTGCTTGTGTGATGTT
CTATTTTCTAATAGTTTTCTTTAGTTTCTTAAAGTTGTGATACTAGATTTAGATTCTGATGCTAACTGCAAAAT
CAGGTTGGTCTCTGCTGGGTCTCTCCTGCTTTTATTTTACTTTAAGGACAAGTGTAGTTGTGTCGCCACCACCTT
CAAAAAATGTGAAACTGCCCTGCCCTCCCTTTTTGCTGACAACACTGTGTACATTGACCACTTCTTACCATACTT
TATGTTGTAAATCAAACTCTTTTGTGGTACATTATCTCATGCTTCTGCAAATTCGAATAAATTCTATGGCTTCC
AAAAAAAAAAAAAA

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FIGURE 963

MKLMTVDPVVQEATLHVSSRL

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FIGURE 964

GCCTCACCACAGAGGCAAGACAAGGGTCCATATCGCGGCATCCGGCTCCCGCCCGTCTTCAGGAGAGAAAGAAAA
AATAAAATATACTTGGGGAAGTTGTACCTGCCAGAATTAGTAAGAGCTTTCTTTAAGAAGACATTTGTCAAACCTC
AACAAATTGAAGGTTAACACCTTAAGAGTTGTAGTTACTGACCAGAAATATGGACAGACTTCTTAGACTTGGAGG
AGGTATGCCTGGACTGGGCCAGGGGCCACCTACAGATGCTCCTGCAGTGGACACAGCAGAACAAAGTCTATATCTC
TTCCCTGGCACTGTTAAAAATGTTAAACATGGCCGTGCTGGAGTTCCAATGGAAGTTATGGGTTTGATGCTTGG
AGAATTTGTTGATGATTATACCGTCAGAGTGATTGATGTGTTTGCTATGCCACAGTCAGGAACAGGTGTGAGTGT
GGAGGCAGTTGATCCAGTGTCCAAGCTAAAATGTTGGATATGTTGAAGCAGACAGGAAGGCCGGAGATGGTTGT
TGGTTGGTATCACAGTCACCCCTGGCTTTGGTTGTTGGCTTTCTGGTGTGGATATCAACACTCAGCAGAGCTTTGA
AGCCTTGTGGAGAGAGCTGTGGCAGTGGTTGTGGATCCCATTCAGAGTGTAAAAGGAAAGGTTGTTATTGATGC
CTTCAGATTGATCAATGCTAATATGATGGTCTTAGGACATGAACCAAGACAAACAACCTCGAATCTGGGTCACCT
AAACAAGCCATCTATCCAGGCATTAATTCATGGACTAAACAGACATTATTACTCCATTACTATTAACATATCGGAA
AAATGAACTGGAACAGAAGATGTTGCTAAATTTGCATAAGAAGAGTTGGATGGAAGGTTTGACACTTCAGGACTA
CAGTGAACATTGTAAACACAATGAATCAGTGGTAAAAGAGATGTTGGAATTAGCCAAGAATTACAATAAGGCTGT
AGAAGAAGAAGATAAGATGACACCTGAACAGCTGGCAATAAAGAATGTTGGCAAGCAGGACCCCAAACGTCATTT
GGAGGAACATGTGGATGTACTTATGACCTCAAATATTGTCCAGTGTITAGCAGCTATGTTGGATACTGTCTGATT
TAAATAA

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FIGURE 965

MDRLRLGGGMPGLGQGPPTDAPAVDTAEQVYISSLALLKMLKHGRAGVPMFVGLMLGEFVDDYTVRVIDVFAM
PQSGTGVSVFAVDPVFQAKMLDMLKQGRPEMVVGWYHSHPGFGCWLSGVDINTQQSFEALSERAVAVVVDPIQS
VKGKVVIDAFRLINANMMVLGHEPRQTTNLGHLNKP'SIQALIHGLNRHYYSITINYRKNELEQKMLLNHLHKKSW
MEGLTLQDYSECHKHNEVVKEMLELAKNYNKAVEEEDKMTPEQLAIKNVGKQDPKRHLEEHVDVLMTSNIVQCL
AAMLDTVVFK

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FIGURE 966

AAGGCAACAGACTCTTTATTTAATGTGGTTTAAAATACATCAAAATCAAGTCCCTGGCTGTTGTGAATACCCAAA
GGAGACAAAAAGCTGCCAGTGCAGCTTCAAACAAGTCTGAGTGGCCGGGCTGGGCCATAAGGAAAGCAGTTACA
GGGACAGAAGGCAGCTCCCTTCCCCAGGAAGGGCAAGAGGAGCAGGTGCCTGGCTGTCCCTGGGGTGACCACCT
CTGTGCTGTGCAAGGCGGAAAGGCTGGGGCAGCAGCTGGAGAATCAGCTCAGCAGGCCTTGGCCCTCCCCCGTGG
ACACCAGGCAGCTCCACTGGCCTCCGGGTGAGCCCTCAGGGCCACCGTGATGGGGTGGAGGAGGGTTAAATAACC
ATCTTTACAGAAATAACAGTCTCCTACAGAAAGTGCCTGAGCTCAGCCCATGGTCCGATAACCTCATGGAACA
AACACAAATAAAAAAAGTGTGCTGACACCTCTCAGAACTGGTGGACATGAAGCTCTCAGCTGGACAAG
GCCCTGAAAAAATTTACTATTAGCAGAGCCATGCGCTCTTGAGCTTCACCTGCTGTGGTCCCTGGAGGAAAAG
CTAGCAATCTAAGAAACCAACACAGATCTTGGTCCTAAACTGAGGTCACAAGTGTGGGACCCACCCAGGTGAGG
AAGACTGGCCTTCACTCATGGATAGGCACCTCCCTGCATCTGGCCCAGGACCTGGGCTACTTTGAAAGCAG
AAGCAGAGCAGCTGTAGTGATTGGTTGATTGGTCAATGAAGAGAAGAAAXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXAAGGAGCCTCCAGAGCAGCTAGGAGGGCCTGAGCTGACCAAGCAAGCCCTG
CTCACAAGACAAATGCAGTCAAGACCTGGGTGTATTACTTGTCTTGAGCTCTGAAGGGCAGGGAGGGGTCTGAGC
CTCAAATCAGACAGAGAAATGCTCAAGTCACTTCTGCCAACTCACTGTGATGGCAGCTACAGATGACAGCCCCTC
TCAAGACTCTTCAGCTCACAGACAAGCCACTGACTTCACTGTACACACCCCCATCCCCAATGCAAGCCCCTGT
ACACTTACAGGTATAAATGCATTGCAAGGCCTTGCAAAATGCCCTATGTACGTAAACTGACCCACAAAATCCA
AAATTGCAAGTGCCAGATGCCAGCCAGGTGAGAACATCCTGGCTTCAGCAATGGGCTGCTCAGCATGGGAGCCTT
TTATGGGCCAGGCCTGGCTGGGCTGCCGCTCCCTTCCCAGCATGACCCAACACCAGGCTCTCTAGGCCCTGGCGG
AGGTGGGCTCTTGAGGCCAGTCTGGCCTGATGCTTCTGTGCTCGGTGCTCCTGGGTAGCAAGGCGCTTCTGTGA
CCCTGGGGGAGCTGGGTGCTTGAGCCCCAGGCCCTCTGGCCTCCTCTCAGGGCCACTGTGAGTGGGAGCCCT
GGCCACCAGCACTCAGGTCTGTACCTCTTGTTCAGGTCAATGCGCTCTGTCTGAGTGGCCGGCAGACTTCT
CCAGCCGTTGGATTTTACCTGCAGGCCCTCCAGTCTTTATCCCGACTGTTTTCTCCTCAGCCATCTCAAGCA
GGGCTTGTGTGCTCTCCACCGGGACCGGTACATGGTGGTTCTTTCTCCAGCTTCTTGATCTTCTTAGTCA
TCTTTCCATCTCCTGCTTGAATGTGGTGAATACCTCGCTGCTTTTGGAAAGTGTGTTCTGGAACCTCTCAAACT
TCTCTGTGTATAGGGCAAGCTGTGCTTCAGGTGGGTCTCTTGCTGCTTCATCAGCTCACACATCCTCTGGGACT
CTACTGCCTCTTTCAGGAGAAAACTCTCTCCCGCTGGTGCCGCTCTTCTGCCTCCTTTAGCATCTCCTGGGCCT
GCTGGAGCTTGGCATCCACCAGCTGCTGTTGTAGGTCTTGTGTTGAAGACTTTGTGATATGCTCCTCGCGCA
GCTCATACTGCTCAATCAGCTTCTTGAGCCTCTCAGCCAGCTCCATGTTCTCTTGGCGCAGCTTGGAGTTGCGCT
CATTTGTGCTGTTCCATCCGGACGCTGGGTGAGGTGAGGGATC

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FIGURE 967

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCTCTGAGCTTCGCAATTCCTGTGTCGCCTTCTGGGCTCCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGAGCTGGTTTTTTTGGCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAATGCTCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCTACAAGCTTTCAGAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCACTGCCATCAATGEC
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAACGCGGTACCGGCGG
GCATTGAGTGACCTGACATCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGTAGTGAAT
GAACTCTTCGGGATGGGGTAAACTGGGGTCGCAATTGTGGCCTTTTCTCTCTCGGCGGGGCACTGTGCGTGGAA
AGCGTAGACAAGGAGATGCAGGTATTGGTGAGTCGGATCGCAGCTTGGATGGCCACTTACCTGAATGACCACCTA
GAGCCTTGGATCCAGGAGAACGGCGGCTGGGATACTTTTGTGAACTCTATGGGAACAATGCAGCAGCCGAGAGC
CGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCTTGACGGGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCA
CTCTTCAGTCGGAATGACACAGACTGACCATCCACTCTACCCTCCCACCCCTTCTCTGCTCCACCACATCCT
CCGTCCAGCCGCCATTGCCACCAGGAGAACCCTACATGCAGCCCATGCCACCTGCCCATCACAGGGTTGGGCC
CAGATCTGGTCCCTTGACGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCCAACCTCAGTTCCTTG
GCCTCAGAAATCACAAAATTTCCACAAAATCTGTCCAAAGGAGGCTGGCAGGTATGGAAGGGTTGTGGCTGGGG
GCAGGAGGGCCCTACCTGATTGGTGCAACCCTTACCCCTTAGCCTCCCTGAAAATGTTTTTCTGCCAGGGAGCTT
GAAAGTTTTTCAGAACCTCTTCCCAGAAAGGAGACTAGATTGCCTTTGTTTTGATGTTTGTGGCCTCAGAAATGA
TCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTCCCTTTCCTTCCATCCCTACCCCTAAGAGCCATTTAG
GGGCCACTTTTGACTAGGGATTGAGGCTGCTTGGGATAAAGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGA
CTGGCTAGAGTCTCACTCCAGTCCAAATGTCTCCAGAAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGG
AGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAAGTTCAGCACCACCTAGTCCC
TTCCCTCCTGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGG
CCTCAGCTGCCCTCACTTCCCTACAAGAGCAGCCTGTGGCATCTTTGCCCTTGGGCTGCTCCTCATGGTGGGTTGAGG
GGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAG
GAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTAGGGCTGACTAGAAGGGCCAGTCCCTGCCTGGCCAGGC
AGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGGCTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTC
AGGCCCTCCCTCTCTCTTCTGCTCCACCCTTGGCCTGTCTATCCCCAGGGGTCCCAGCCACCCGGGCTCTCTGC
TGTACATATTTGAGACTAGTTTTTATTCCTTGTGAAGATGATATACTATTTTGTAAAGCGTGTCTGTATTTATG
TGTGAGGAGCTGCTGGCTTGCAAGTGCGCGTGCACGTGGAGAGCTGGTGCCCGGAGATTGGACGGCCTGATGCTCC
CTCCCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTGGCTCCTGAGGGGCATCTGCCCCCTCCCCAACCCCC
ACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAAGTGAAAGTGCAGTTCAGTAATAAACTGTGTTTA
CTCAGTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 968

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGWDTFVELYGNNAAESRKGQERFNRWFLTGMTVAGVVL
LGSLSRK

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FIGURE 969A

TTCGCCGTTTGAATTGCTGCGGGCCCGGGCCCTCACCTCACCTGAGGTCCGGCCGCCAGGGGTGCGCTATGCGG
TCGGGAGGTGACCAGTCGCCACCGCCCCCGCTCCCCCTCCGGCGGGCGCAGCCTCGGATGAGGAGGAGGAGGAC
GACGGCGAGGCGGAAGACGCCGCGCGTCTGCCGAGTCGCCACCCCTCAGATCCAGCAGCGGTTTCGACGAGCTG
TGCAGCCGCTCAACATGGACGAGGCGGCGCGGCCGAGGCTGGGACAGCTACCGCAGCATGAGCGAAAGCTAC
ACGCTGGAGGGAAATGATCTTCATTGGTTAGCATGTGCCTTATATGTGGCTTGCAAAAATCTGTTCCAAGTGA
AGCAAAGGACAGTGAAGGAAACTATGTATCTTTAACTAGAATCCTGAAATGTTTCAGAGCAGAGCTTAATCGAA
TTTTTTAATAAGATGAAGAAGTGGGAAGACATGGCAAATCTACCCACATTTTCAGAGAACGTACTGAGAGATTA
GAAAGAACTTCACTGTTTCTGCTGTAATTTTAAAGAAATGAACCCATTTTTCAGGACATCTTTAAATACCCCT
CAAGAGGAGCAACCTCGTCAGCAGCGAGGAAGGAAACAGCGGCGACAGCCCTGTACTGTGTCTGAAATTTTCCAT
TTTTGTTGGGTGCTTTTTATATATGCAAAAGGTAATTTCCCATGATTAGTGATGATTTGGTCAATTCTTATCAC
CTGCTGCTGTGTGCTTTGGACTTAGTTTATGGAAATGCACCTTCAGTGTCTAATCGTAAAGAACTTGTAACCCCT
AATTTTAAAGGCTTATCTGAAGATTTTCATGCTAAAGATTCTAAACCTTCCTCTGACCCCCCTGTATCATTGAG
AAACTGTGTTCCCTTACATGATGGCCTAGTTTTGGAAGCAAAGGGGATAAAGGAACATTTCTGGAAACCTTATATT
AGGAACTTTATGAAAAAAGCTCCTTAAGGGAAAAGAAGAAATCTCACTGGGTTTCTAGAACCTGGGAACCTTT
GGAGAGAGTTTTAAAGCCATCAATAAGGCCTATGAGGAGTATGTTTTATCTGTTGGGAATTTAGATGAGCGGATA
TTTCTTGGAGAGGATGCTGAGGAGGAAATGGGACTCTCTCAAGGTGTCTGAACGCTGGTTTCAGGAACAGAGACT
GCTGAAAGGGTGCGAGATGAAAAACATCTTACAGCAGCATTTTGACAAGTCCAAAGCACTTAGAATCTCCACACCA
CTAACTGGTGTAGGTACATTAAGGAGAATAGCCCTTGTGTGACTCCAGTTTCTACAGCTACGCATAGCTTGAGT
CGTCTTCACACCATGCTGACAGGCCTCAGGAATGCACCAAGTGAGAACTGGAACAGATTCTCAGGACATGTTCC
AGAGATCCAACCCAGGCTATTGCTAACAGACTGAAAGAAATGTTGAAATATATTCTCAGCATTTCCAGCCAGAC
GAGGATTTTCAGTAATTGTGCTAAAGAAATTGCCAGCAAACATTTTCGTTTTGCGGAGATGCTTTACTATAAAGTA
TTAGAATCTGTTATTGAGCAGGAACAAAAAGACTAGGAGACATGGATTTATCTGGTATTCTGGAACAAGATGCA
TTCCACAGATCTCTCTTGGCCTGCTGCCTTGAGGTGCTCACTTTTTCTTATAAGCCTCCTGGGAATTTTCCATTT
ATTACTGAAATATTGATGTGCTCTTTATCATTTTTATAAGGTGATAGAAGTATTCATTAGAGCAGAAGATGGC
CTTTGTAGAGAGGTGGTAAAACACCTTAATCAGATTGAAGAACAGATCTTAGATCATTGGCATGGAACACAGAG
TCTCCACTCTGGGAAAAAATTAGAGACAATGAAACAGAGTTCCTACATGTGAAGAGGTATGCCACCTCAGAAC
CTGGAAAGGGCAGATGAAATTTGCATTGCTGGCTCCCCCTTGACTCCAGAAAGGTGACTGAAGTTCGTGCTGAT
ACTGGAGGACTTGAAGGAGCATAACATCTCCAACACATTATACGATAGGTACAGCTCCCCACCAGCCAGCACT
ACCAGAAGGCGGCTATTTGTTGAGAATGATAGCCCTCTGATGGAGGGACGCCTGGGCGCATGCCCCACAGCCC
CTAGTCAATGCTGTCCCTGTGCAGAATGTATCTGGGGAGACTGTTTCTGTACACACAGTTCCTGGACAGACTTTG
GTCACCATGGCAACCGCCACTGTACAGCCAACATGGGCAACCGGTAACCATTCCTGTGCAAGGTATTGCCAAT
GAAATGAGGGGATAACATTTCTCCCTGTCCAAGTCAATGTTGGGGGGCAGGCACAAGCTGTGACAGGCTCCATC
CAGCCCCCTCAGTGTCTCAGGCCCTGGCTGGAAGTCTGAGCTCTCAACAGGTGACAGGAACAACCTTTGCAAGTCCCT
GGTCAAGTGGCCATTCAACAGATTTCCCCAGGTGGCCAACAGCAGAAGCAAGGCCAGTCTGTAACCAGCAGTAGT
AATAGACCCAGGAAGACCAGCTCTTTATCGCTTTTCTTTAGAAAGGTATACCATTTAGCAGCTGTCCGCCTTCGG
GATCTCTGTGCCAAACTAGATATTTTCAGATGAATTGAGGAAAAAATCTGGACCTGCTTTGAATTCTCCATAATT
CAGTGTCTGAACTTATGATGGACAGACATCTGGACAGTTATTAATGTGTGCCATTTATGTGATGGCAAAGGTC
ACAAAAGAAGATAAGTCTTCCAGAACATTATGCGTTGTTATAGGACTCAGCCGCGAGGCCCGGAGCCAGGTGTAT
AGAAGTGTTTTGATAAAAGGGAAAAGAAAAGAAATCTGGCAGCAGTGATAGCAGAAGCCATCAGAATTCT
CCAACAGAACTAAACAAAGATAGAACCAGTAGAGACTCCAGTCCAGTTATGAGGTCAAGCAGCACCTTGCCAGTT
CCACAGCCCAGCAGTGCTCCTCCACACCTACTCGCCTCACAGGTGCCAACAGTGACATGGAAGAAGAGGAGAGG
GGAGACCTCATTCACTTCTACAACAACATCTACATCAAACAGATTAAGACATTTGCCATGAAGTACTCACAGGCA
AATATGGATGCTCCTCCACTCTCTCCCTATCCATTTGTAAGAACAGGCTCCCCCTCGCCGAATACAGTTGTCTCAA
AATCATCCTGTCTACATTTCCCCACATAAAAAATGAAACAATGCTTCTCCTCGAGAAAAGATTTTCTATTACTTC
AGCAACAGTCTTCAAAGAGACTGAGAGAAATTAATAGTATGATACGCACAGGAGAACTCCTACTAAAAAGAGA
GGAATTTCTTTGGAAGATGGAAGTGAATCACCTGCAAAAAGAAATTTGCCAGAAAATCATTCTGCCTTATTACGC
CGTCTCCAAGATGTAGCTAATGACCGTGGTTCCCACTGAGGTTAGTCTCTTGTATTAACTCTTCACAAAATCTG
TTTAGCAGCAGCCTTTAATGCATCTAGATTATGGAGCTTTTTTCTTAATCCAGCTGATGAGTTACAGCCTGTTA

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FIGURE 969B

GTAACATGAGGGGACATTTTGGTGAGAAATGGGACTTAACCTCCTTCCAGTGTCTTAGAACATTTTAATTCATCC
CAACTGTCTTTTTTCCCTACCACTCAGTGATTACTGTCAAGGCTGCTTACAATCCAACTTGGGTTTTTGGCTC
TGGCAAAGCTTTTAGAAATACTGCAAGAAATGATGTGTACCCAACGTGAGCATAGGAGGCTTCTGTTGACGTCTC
CAACAGAAGAAGTGTGTTTCAAGTTCAATCCTACCTGTTTTGTGGTCAGCTGTAGTCTCATAAAAAGCAAACA
AAAATTAGGTATTTTGTCTAAAACACCTGGTAGGAGTGTGTGATTTTTTGCATTCTGACAAAGGAGAGCACAC
CCAGGTTTGGAGGTCCTAGGTCATTAGCCCTCGTCTCCCGTTCCCTTTGTGCACATCTTCCCTCTCCCCATTCGG
TGTGGTGCAGTGTGAAAAGTCCTTGATTGTTCCGGTGTGCAATGTCTGAGTGAACCTGTATAAGTGGAGGCACTT
TAGGGCTGTAAAATGCATGATTTTGTAAACCAGATTTTGTCTGTATATTTGTGATAGCACTTCTACAATGTGAAC
TTTATTAAATACAAAACCTCCAGGCTAAACATCCAATATTTCTTTAATGCTTTTATATTTTTTAAATGTAA
AACCCTATAGCCACCTTTTGGGAATGTTTTAAATTCTCCAGTTTTTTGTATATAGGGATCAACCAGCTAAGAA
AAGATTTTAAGTCAAGTTGAATTGAGGGGATTAATATGAAAACCTTATGACCTCTTCCTTTAGGAGGGAGTTATCT
AAAAGAAATGTCATTAAGGTGATATATTTAAAAATATTTTTGGGTGTTCTGGCAGTTTAAAAAAATTGGTTGG
AGAATTTAGGTTTTTATTAGTACCATAGTACCATTTATACAAATTAGAAAATGTTATTTAACAGCTGAATTATCT
ATACATATCTTTATTAATCACTATTGTTCCAGCAGTTTTCAAGTCAAATTAATAATCTTATTAGGGAGAAAATTC
AATTGTAAATTGAATCAGTATAAACAAGTTACTAGGTAACCTTCATATTGCTGAGAGAAATATGGAACCTTACATT
GTTCAATTAGAATAGTGTCTCCCCAAATATTTATAAACTTCTCAAGATACTGCTACGTGTAATTTTATATGAA
GATAAGTGTATTTTTCAATAAAGCATTATATAAATTAATAAAAAAAAAAAAAAAAAA

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FIGURE 970

MPSSGGDQSPPPPPPPAAAAASDEEEEDDGEAEDAAPSAESPTPQIQQRFDLCSRLNMDEAARPEAWDSYRSMSE
SYTLEGNDLHWLACALYVACRKSVPVTVSKGTVEGNYVSLTRILKCSEQSLIEFFNKMKKWEDMANLPPHFRERTE
RLERNFTVSAVIFKKYEP IFQDIFKYPQEEQPRQQRGRKQRRQPCTVSEIFHFCWVLFYIYAKGNFPMISDDLVS
YHLLLCALDLVYGNALQCSNRKELVNPNFKGLSEDFHAKDSKPSSDPPCI IEKLCSLHDGLVLEAKGIKEHFWK
YIRKLYEKKLLKGKEENLTGFLEPGNFGESFKAINKAYEEYVLSVGNLDERIFLGEDAEIEIGTLSRCLNAGSGT
ETAERVQMKNILQQHFDKSKALRISTPLTGVRYIKENSPCVTPVSTATHSLSRHLTMLTGLRNAPSEKLEQILRT
CSRDPQTQAIANRLKEMFEIYSQHFQPDDEFSNCAKEIASKHFRFAEMLYYKVLESVIEQEQKRLGDMDSLGLILEQ
DAFHRSLLACCLEVVTF SYKPPGNFPFITEIFDVPLYHFYKVIEWFIRAEDGLCREVVKHLNQIEEQILDHLAWK
PESPLWEKIRDNENRVPTCEEVMPPQNLERADEICIASGPLTPRRVTEVRADTGGLGRSITSPPTLYDRYSSPPA
STTRRLRFVENDSPSDGGTPGRMPPQPLVNAVFPVQNVSETVSVTPVPGQTLVTMATATVTANNGQTVTIPVQGI
ANENGGITFFPVQVNVGGQAQAVTGSIQPLSAQALAGSLSSQVGTGTLQVPQGVAIQQISPGGQQQKQGSVTS
SSNRPRKTSSLSLFFRKVYHLAAVRLRDLCAKLDISDELKKIWTCEFSIIQCPPELMDRHLQQLMCAIYVMA
KVTKEDKSFQNMRCYRTQPQARSQVYRSVLIGKRRRRNSGSSDSRSHQNSPTELNKDRTSRDSSPVMRSSLT
PVPQPSAPPTPTRLTGANSDEEEERGDLIQFYNNIYIKQIKTFAMKYSQANMDAPPLSPYFVRTGSPRRIQL
SQNHVPYISPHKNETMLSPREKIFYFNSNSPSKRLREINSMIRTGETPTKKRGILLEDGSESPAKRICPENHSAL
LRRLQDVANDRGSH

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FIGURE 971A

TTCGCCGTTTGAATTGCTGCGGGCCCGGGCCCTCACCTCACCTGAGGTCCGGCCGCCAGGGGTGCGCTATGCCG
TCGGGAGGTGACCAGTCGCCACCGCCCCCGCTCCCCCTCCGGCGCGGCAGCCTCGGATGAGGAGGAGGAGGAC
GACGGCGAGGCGGAAGACGCCGCGCCGTCTGCCGAGTCGCCACCCCTCAGATCCAGCAGCGGTTTCGACGAGCTG
TGCAGCCGCTCAACATGGACGAGGCGGCGCGGCCGAGGCCTGGGACAGCTACCGCAGCATGAGCGAAAGCTAC
ACGCTGGAGGAAAATGATCTTCATTGGTTAGCATGTGCCTTATATGTGGCTTGCAGAAAATCTGTTCCAACGTGA
AGCAAAGGGACAGTGGAAGGAACTATGTATCTTTAACTAGAATCCTGAAATGTTTCAGAGCAGAGCTTAATCGAA
TTTTTTAATAAGATGAAGAAGTGGGAAGACATGGCAAATCTACCCCCACATTTTCAGAGAACGTACTGAGAGATTA
GAAAGAACTTCACTGTTTCTGCTGTAATTTTAAAGAAATATGAACCCATTTTTCAGGACATCTTTAAATACCCCT
CAAGAGGAGCAACCTCGTCAGCAGCGAGGAAGGAAACAGCGCGCAGACCCCTGTACTGTGTCTGAAATTTTCCAT
TTTTGTTGGGTGCTTTTTATATATGCAAAAGGTAATTTCCCATGATTAGTGATGATTGGTCAATTCTTATCAC
CTGCTGCTGTGTGCTTTGGACTTAGTTTATGGAAATGCACTTCAGTGTTCTAATCGTAAAGAACTTGTGAACCCCT
AATTTTAAAGGCTTATCTGAAGATTTTCTAGCTAAAGATTCTAAACCTTCCCTGACCCCCCTGTATCATTGAG
AAACTGTGTTCCCTACATGATGGCCTAGTTTTGGAAGCAAAGGGGATAAAGGAACATTTCTGGAAACCCATATT
AGGAACTTTATGAAAAAAGCTCCTTAAGGGAAGAAAGAAATCTCACTGGGTTTCTAGAACCCTGGGAACCTTT
GGAGAGAGTTTTAAAGCCATCAATAAGGCCTATGAGGAGTATGTTTTATCTGTTGGGAATTTAGATGAGCGGATA
TTTCTTGGAGAGGATGCTGAGGAGGAAATTGGGACTCTCTCAAGGTGTCTGAACGCTGGTTTCAGGAACAGAGACT
GCTGAAAGGGTGCAGATGAAAAACATCTTACAGCAGCATTTTGACAAGTCCAAAGCACTTAGAATCTCCACACCA
CTAACTGGTGTAGGTACATTAAGGAGAATAGCCCTGTGTGACTCCAGTTTCTACAGCTACGCATAGCTTGAGT
CGTCTTACACCATGCTGACAGGCCTCAGGAATGCACCAAGTGAGAACTGGAACAGATTCTCAGGACATGTTCC
AGAGATCCAACCCAGGCTATTGCTAACAGACTGAAAGAAATGTTTGAATATATTCTCAGCATTTCCAGCCAGAC
GAGGATTTTCAGTAATTGTGCTAAAGAAATTGCCAGCAAACATTTTCGTTTTGCGGAGATGCTTTACTATAAAGTA
TTAGAATCTGTTATTGAGCAGGAACAAAAAGACTAGGAGACATGGATTTATCTGGTATTCTGGAACAAGATGCA
TTCCACAGATCTCTTGGCCTGCTGCCTTGAGGTGCTCACTTTTCTTATAAGCCTCCTGGGAATTTTCCATTT
ATTACTGAAATATTGATGTGCCTCTTTATCATTTTTATAAGGTGATAGAAGTATTCATTAGAGCAGAAGATGGC
CTTTGTAGAGAGGTGGTAAAACACCTTAATCAGATTGAAGAACAGATCTTAGATCATTGGCATGGAACCCAGAG
TCTCCACTCTGGGAAAAAATTAGAGACAATGAAACAGAGTTCCTACATGTGAAGAGGTGATGCCACCTCAGAAC
CTGGAAAGGGCAGATGAAATTTGCATTGCTGGCTCCCCTTTGACTCCCAAGGGTGACTGAAGTTTCGTGCTGAT
ACTGGAGGACTTGAAGGAGCATAACATCTCCAACACATTATACGATAGGTACAGCTCCCCACCAGCCAGCACT
ACCAGAAGGCGGCTATTTGTTGAGAATGATAGCCCTCTGATGGAGGGACGCCTGGGCGCATGCCCCACAGCCC
CTAGTCAATGCTGTCCCTGTGCAGAATGTATCTGGGGAGACTGTTTCTGTACACCAGTTCCTGGACAGACTTTG
GTCACCATGGCAACCGCCACTGTACAGCCAACATGGGCAAACGGTAACCATTCCTGTGCAAGGTATTGCCAAT
GAAATGGAGGGATAACATTCCTTCCCTGTCCAAGTCAATGTTGGGGGGCAGGCACAAGCTGTGACAGGCTCCATC
CAGCCCCCTCAGTGTCTCAGGCCCTGGCTGGAAGTCTGAGCTCTCAACAGGTGACAGGAACAACCTTTGCAAGTCCCT
GGTCAAGTGGCCATTCAACAGATTTCCCCAGGTGGCCAACAGCAGAAGCAAGGCCAGTCTGTAACCAGCAGTAGT
AATAGACCCAGGAAGACCAGCTCTTTATCGCTTTTCTTTAGAAAGGTATACCATTTAGCAGCTGTCCGCCTTCGG
GATCTCTGTGCCAACTAGATATTTTCAGATGAATTGAGGAAAAAATCTGGACCTGCTTTGAATTCTCCATAATT
CAGTGTCTGAACTTATGATGGACAGACATCTGGACCAGTTATTAATGTGTGCCATTTATGTGATGGCAAAGGTC
ACAAAAGAAGATAAGTCCCTCCAGAACATTATGCGTTGTTATAGGACTCAGCCGCAGGCCCGGAGCCAGGTGTAT
AGAAGTGTTTTGATAAAAGGGAAAAAGAAAGAAATCTGGCAGCAGTGATAGCAGAAGCCATCAGAATTCT
CCAACAGAACTAAACAAAGATAGAACCCAGTAGAGACTCCAGTCCAGTTATGAGGTCAAGCAGCACCTTGCCAGTT
CCACAGCCCAGCAGTGCTCCTCCACACCTACTCGCTCACAGGTGCCAACAGTGACATGGAAGAAGAGGAGAGG
GGAGACCTCATTCACTTCTACAACAACATCTACATCAAACAGATTAAGACATTTGCCATGAAGTACTCACAGGCA
AATATGGATGCTCCTCCACTCTCTCCCTATCCATTTGTAAGAACAGGCTCCCCCTCGCCGAATACAGTTGTCTCAA
AATCATCCTGTCTACATTTCCCCACATAAAAAATGAAACAATGCTTTCTCCTCGAGAAAAGATTTTCTATTACTTC
AGCAACAGTCCCTTCAAAGAGACTGAGAGAAATTAATAGTATGATACGCACAGGAGAACTCCTACTAAAAAGAGA
GGAATTCCTTTGGAAGATGGAAGTGAATCACCTGCAAAAAGAATTTGCCAGAAAATCATTCTGCCTTATTACGC
CGTCTCCAAGATGTAGCTAATGACCGTGGTTCCCACTGAGGTTAGTCTCTTGTATTAACTCTTCACAAAATCTG
TTTAGCAGCAGCCTTAATGCATCTAGATTATGGAGCTTTTTTCTTAATCCAGCTGATGAGTTACAGCCTGTTA

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FIGURE 971B

GTAACATGAGGGGACATTTTGGTGAGAAATGGGACTTAACTCCTTCCAGTGTCTTAGAACATTTTAATTCATCC
CAACTGTCTTTTTTCCCTACCACTCAGTGATTACTGTCAAGGCTGCTTACAATCCAACTTGGGTTTTTGGCTC
TGGCAAAGCTTTTAGAAATACTGCAAGAAATGATGTGTACCCAACGTGAGCATAGGAGGCTTCTGTTGACGTCTC
CAACAGAAGAAGTGTGTTTCAAGTTCAATCCTACCTGTTTTGTGGTCAGCTGTAGTCCTCATAAAAAGCAAACA
AAAATTAGGTATTTTGTCTAAAACACCTGGTAGGAGTGTGTGATTTTTTGCATTCTGACAAAGGAGAGCACAC
CCAGGTTTGGAGGTCCTAGGTCATTAGCCCTCGTCTCCCGTTCCCTTTGTGCACATCTCCCTCTCCCCATTCCG
TGTGGTGCAGTGTGAAAAGTCCTTGATTGTTCCGGGTGTGCAATGTCTGAGTGAACCTGTATAAGTGGAGGCACTT
TAGGGCTGTAAAATGCATGATTTTGTAAACCAGATTTTGCTGTATATTGTGATAGCACTTCTACAAATGTGAAC
TTTATTAAATACAAAACCTTCCAGGCTAAACATCCAATATTTTCTTTAATGCTTTTATATTTTTTAAATGTTAA
AACCCTATAGCCACCTTTTGGGAATGTTTTAAATTCCTCAGTTTTTGTATATAGGGATCAACCAGCTAAGAA
AAGATTTTAAGTCAAGTTGAATTGAGGGGATTAATATGAAAACCTATGACCTCTTCCTTAGGAGGGAGTTATCT
AAAAGAAATGTCTATTAAGGTGATATTTAAAAATATTTTGGGTGTCCTGGCAGTTAAAAAAATTGTTGG
AGAATTTAGGTTTTTATTAGTACCATAGTACCATTTATACAAATTAGAAAATGTTATTTAACAGCTGAATTATCT
ATACATATCTTTATTAATCACTATTGTTCCAGCAGTTTCAAGTCAAATTAATAATCTTATTAGGGAGAAAATTC
AATTGTAAATTGAATCAGTATAAACAAAGTTACTAGGTAACCTCATATTGCTGAGAGAAATATGGAACCTACATT
GTTCAATTAGAAATAGTGTCTCCCCAAATATTTATAAACTTCTCAAGATACTGCTACGTGTAATTTTATATGAA
GATAAGTGTATTTTCAATAAAGCATTATATAAATTAAAAA

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FIGURE 972

MPSSGQDQSPPPPPPPAAAAASDEEEEDDGEAEDAAPSAESPTPQIQRFDELCSRLNMDEAARPEAWDSYRSMSE
SYTLEGNDLHWLACALYVACRKSVP TVSKGTVEGNYVSLTRILKCSEQSLIEFFNKMKKWEDMANLPPHFRERTE
RLERNFTVSAVIFKKYEP IFQDIFKYPQEEQPRQQRGRKQRRQPCTVSEIFHFCWVLF IYAKGNFPMISDDL VNS
YHLLLCALDLVYGNALQCSNRKELVNP NF KGLSEDFHAKDSKPSSDPPCI IEKLCSLHDGLVLEAKGIKEHFWKP
YIRKLYEKKLLKGKEENLTGFLEPGNFGESFKAINKAYEEYVLSVGNLDERIFLGEDAE EEEIGTLSRCLNAGSGT
ETAERVQMKNILQOHFDKSKALRI STPLTG VRYIKENSPCVTPVSTATHSLSR LHMTLTGLRNAPSEKLEQILRT
CSRDP TQAIANRLKEMFEIYSQH FQPD EDFS NCAKEIASKHFRFAEMLYYKVLESVIEQEQKRLGDM DLSGILEQ
DAFHRSLLACCLEVVTF SYKPPGNFPF ITEIFDVPLYHFYKVIEVF IRAEDGLCREVVKHLNQIEEQILDHLAWK
PESPLWEKIRDNENRVPTCEEVMPPQNLERADEIC IAGSPLTPRRVTEVRADTGGLGRSITSP T TLYDRYSSPPA
STTRRL FVENDSPSDGGTPGRMP PQPLVNAVFPVQNVSETVSVTPVPGQTLVTMATATVTANNGQTVTIPVQGI
ANENGGITFFPVQVNVGGQAQAVTGSIQPLSAQALAGSLSSQQVTGTTLQVP GQVAIQQISPGGQQQKQGQSVTS
SSNRPRKTSSLSLFFRKVYHLAAVRLRDLCAKLDISDEL RKKIWT CFEFSIIQCP ELMMDRHL DQLLMCAIYVMA
KVTKEDKSFQNMRCYRTQPQARSQVYRSVLIKGRKRNRNSGSSDSRSHQNSPTEL NKDRTSRDSSPVMRSSSTL
PVPQPS SAPPTPTRLTGANS DMEEEERGD LIQFYNNIYIKQIKTFAMKYSQANMDAPPLSPYFPVRTGSPRRIQL
SQNHVYI SPHKNETMLSPREKIFYF SNSPSKRLREINSMIRTGETPTKKRGILLEDGSESPAKRICPENHSAL
LRRLQDVANDRGSH

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FIGURE 973

TGGGCAATTAAACCAAGCCATAGCCAATGAATATGAAGTCCGGAGAAAGCTGCTAATAAAACGTTTGGATGTCAC
GTACAATCCTTTGGCTGGTCTGACAGAGCTAAGAGCCAGACAGAAAAATTAGCCAAGGTTTACCAGCCGAAACGT
TCAGTCTTATCCCCTAAACTACTATTTCTGTTGCCATCTTTTGGCTGCAAGGCAGGACTTGTCAAAGATTTTA
AGGACAAGCAGCGGCTCTATAAGAGAAAAGACTGCCTGTGCCATCAATAAGGTGTTGATGGGCAGGGTGCCTGAC
AGAGGTGGTAGACCCAATGAAATCGAACCTCCACCCCGAGAGATGCCACCGTGGCAGAAGAGGCAAGATGGCCCC
CAGCAGCAAACAGGAGGCCGAGTAGGAGGGAGAGGTGGCTATGAACATTCTCATACGGAGGACGAGGAGGTCAT
GAACAAGGAGCGGGAGAGGTGGACGTGGTGGCTATGACCATGGTGGCCGAGGGGGAGGAAGAGGAAATAAGCAT
CAAGGAGGCTGGACAGATGGAGGGAGTGGTGGAGGAGGTGGCTACCAAGATGGTGGTTATCGAGATTAGGTTTC
CAGCCAGGTGGCTATCATGGTGGCCACAGCAGTGGTGGCTATCAAGGCGGAGGTTATGGTGGCTTCCAAACATCT
TCTTCATATACAGGAAGTGGATACCAGGTGGTGGCTACCAGCAGGACAATAGATACCAAGATGGCGGGCACCAT
GGTGATCGTGGTGGTGGTGGTGGTGGCGAGGTGGTGGTGGAGGCCGAGGTGGTGGTGGCAGGCCAGGGAGGAGGC
TGGGGAGGAAGAGGGAGCCAGAATTATACCAAGGGGTCAATTTGAACAGCATTTCAGCATGGAGGTTATCAG
TATAATCATTCTGGATTTGGACAGGGAAGACATTACACTAGTTCAGGCTACCGAACTTTACATTTTGCTAGAGCT
CAAGTAATAGAACTTAGTTTCAGAATCCTGAATTCAGCACCTATTTTGAATTAATGTGAGACCACAGGTGGCAG
GCAGATTCTGCTTGGCATAAGCATTGTAGGTCTTCATTCAATTCTGTTAGATTTTTTATTGGACTTACATAA
TGCCGTTTTATTGAGAAACACATAACATCTCTCCTTCCTATGAAAAATTTTTTAAAAGGTGGTAAAATTGCCTT
TAATTGCCCAGTAGACTAATTCACAGTCAGAACATGCAAATTTTTTGAAGAAATTACTTGAATAAGTAGTTTT
CATGTTTTCAATATGCAGTTTTGAAAATGAGGATTCACCTAGACTTTTTTAGATTTACTACTAGGAAACCTTCCT
CATATGAATAACCATTTATATGTGTTTTGCTTAAAGTATTCCAATGCCTATTTTCCAAGCACAGTCTGCCCCCC
GGTTGACTTTTTATGCCACGTGTGCTTCATGATGGAACTTTTAGGTCAGTTCCTATTAAATGAGCTCTTCTGCAGA
TAGCACATTAGTAGCCTTATTTGTTGATGGAATACTGTATCATATGCTCAACTCTGAAAACCTTGAACACGGC
CAAAATCCATAAAGATTATAAAAAGCAAACCTAAGTTGTGAAGCTATAGTACATGTAGGCATTTAGTTAAGTATAGC
AATTCAAACCTGACCTGCATCCATCCAAAACAAATTCCTCCTTCAACCTTATTTTACTTGAATTTGCTAGAAGA
AATAGCAAACCGAAATTTGTTTTATGCATGAGTTAATACCAGTGGCTCAGCAAATACAAGTTAGTTTGCTTTAAG
CAGGTAACCTTTTTTGTAATGGAAGAAATGCACTACAAAGTTAAGACAGATTTTGCTAAGTGCAGGAGGCCCTT
TATTATTGCTGCAGAAAACAAAAGCCTGGCTGAGTTGATGTTTTACATTCTCCCTTACTGAAATCTACATGACAT
GATGCTTCTTGCTGGGTTTTTGTACATGTAACATTGTCAAGCTGTGAAAGAAAATGGCTGGAGGTGTGCTTTGT
GTGAAAGGTGAGCAATAAAGTATCTGTTAAGTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 974

WAINQAIANEYEVRRKLLIKRLDVTVQSFQWSDRAKSQTEKLAKVYQPKRSVLSPKTTISVAHLLAARQDLSKIL
RTSSGSIREKTACAINKVLGRVPDRGGRPNEIEPPPPPEMPWQKRQDGPQQQTGGRVGGGGYEHSSYGGRGGH
EQGGGRGGGGYDHGGRGGGRGNKHQGGWTDGGSGGGGGYQDGGYRDSGFQPGGYHGGHSSGGYQGGGYGGFQTS
SSYTGSYQGGGYQQDNRYQDGGHHGDRGGGRGGGRGGGRAGQGGGWGGRGSQNYHQGGQFEQHFQHGGYQ
YNHSGFGQGRHYTS

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FIGURE 975

ATGGCAGCCCCGAGTACTTATAATTGGCAGTGGAGGAAGGGAACATACGCTGGCCTGGAACTTGCACAGTCTCAT
CATGTCAAACAAGTGTGGTTGCCCCAGGAAACGCAGGCACTGCCTGCTCTGAAAAGATTCAAATACCGCCATC
TCAATCAGTGACCACACTGCCCTTGCTCAATTCTGCAAAGAGAAGAAAATTGAATTTGTAGTTGTTGGACCAGAA
GCACCTCTGGCTGCTGGGATTGTTGGGAACCTGAGGTCTGCAGGAGTGAATGCTTTGGCCCAACAGCAGAAGCG
GCTCAGTTAGAGTCCAGCAAAAGGTTTGCCAAAGAGTTTATGGACAGACATGGAATCCCAACCGCACAAATGGAAG
GCTTTACCAAACCTGAAGAAGCCTGCAGCTTCATTTTGTAGTGCAGACTTCCCTGCTTTGGTTGTGAAGGCCAGT
GGTCTTGCAGCTGGAAGGAGGTTGATTGTGCAAAGAGCAAAGAAGAGGCCTGCAAAGCTGTACAAGAGATCATG
CAGGAGAAAGCCTTTGGGGCAGCTGGAGAAACAATTGTCTTGAAGAATCTTGACGGAGAAGAGGTGTCTGTGT
CTGTGTTTCACTGATGGCAAGACTGTGGCCCCATGCCCCCAGCACAGGACCATAAGCGATTACTGGAGGGAGAT
GGTGGCCCTAACACAGGGGGAATGGGAGCCTATTGTCCAGCCCCCTCAGGTTTCTAATGATCTATTACTAAAAAT
AAAGATACTGTTCTTCAGAGGACAGTGGATGGCATGCAGCAAGAGGGTACTCCATATACAGGTATTCTCTATGCT
GGAATAATGCTGACCAAGAATGGCCCAAAGTTCTAGAGTTAATTGCCGTTTGGTGATCCAGAGTGCCAAAGTA
ATCCTCCCACTTCTTAAAAGTGATCTTTATGAAGTGATTAGTCCACCTTAGATGGACTGCTCTGCACATCTCTG
CCTGTTTGGCTAGAAAACCACACCGCCCTAAGTGTGTGATGGCAAGTAAAGGTTATCCTGGAGACTACACCAAG
GGTGTAGAGATAACAGGGTTTCTGAGGCTCAAGCTCTAGGACTGGAGGTGTCCATGCAGGCACTGCCCTCAA
AATGGCAAAGTAGTAACCTCATGGGGTAGAGTTCTTGCAGTCAAGCCATCCGGGAAAATCTCATATCAGCCCTT
GAGGAAGCCAAGAAAGGACTAGCTGCTATAAGTTTGGAGGAGCAATTTATAGGAAAGACGTCGGCTTTCTGTGCC
ATAGCTTTCTCCAGCAGCCAGGAGTTTACTTACAAGGAATCTGGAGTAGATATCGCAGCTGGAAATATGCTG
GTCAAGAAAATTCAGCCTTTAGCAAAAGCCACTTCCAGATCAGGCTGTAAAGTTGATCTTGGAGGTTTGTCTGGT
CTTTTTGATTAAAAGCAGCTGGTTTCAAAGATCCCCTTCTGGCCTCTGGAACAGATGGCGTTGGAATAAATA
AAGATTGCCAGCTATGCAATAAACATGATACCATTGGTCAAGATTGGTAGCAATGTGTGTTAATGATATTCTG
GCACAAGGAGCAGAGCCCCCTCTTCTTCTTCTGATTACTTTTCTGTGGAAAACCTTGACCTCAGTGTAAGTGAAGCT
GTTGTTGCTGGAATTGCTAAAGCTTGTGGAAAAGCTGGATGTGCTCTCTTGGAGGTGAAACAGCAGAAATGCCT
GACATGTATCCCCCTGGAGAGTATGACCTAGCTGGGTTTGGCGTTGGTGCCATGGAGCGAGATCAGAACTCCCT
CACCTGGAAAGAATCACTGAGGGTGATGTTGTTGTTGGAATAGCTTCATCTGGTCTTCATAGCAATGGATTTAGC
CTTGTGAGGAAAATCGTTGCAAAATCTTCCCTCCAGTACTCCTCTCCAGCACCTGATGGTTGTGGTGACCAGACT
TTAGGGGACTTACTTCTCACGCCTACCAGAATCTACAGCCATTCACTGTTACCTGTCTACGTTACAGGACATGTC
AAAGCCTTTGCCCATATTACTGGTGGAGGATTACTAGAGAACATCCCCAGAGTCTCCCTGAGAACTTGGGGTA
GATTTAGATGCCAGACCTGGAGGATCCCCAGGGTTTCTCATGGTTGCAGCAGGAAGGACACCTCTCTGAGGAA
GAGATGGCCAGAACATTTAAGTGTGGGGTTGGCGCTGTCTTGTGGTATCAAAGGAGCAGACAGAGCAGATTCTG
AGGGATATCCAGCAGCACAAGGAAGAAGCCTGGGTGATTGGCAGTGTGGTTGCACGAGCTGAAGGTTCCCCACGT
GTGAAAGTCAAGAATCTGATTGAAAGCATGCAAAATAATGGGTCAGTGTGGAAGAATGGCTCCCTGACAAATCAT
TTCTCTTTTGAAAAAAAAGGCCAGAGTGGCTGTCTTAATATCTGGAACAGGATCGAACCTGCAAGCACTTATA
GACAGTACTCGGGAACCAATAGCTCTGCACAAATTGATATTGTTATCTCCAACAAGCCGAGTAGCTGGGTTA
GATAAAGCGGAAAGAGCTGGTATTCCCACTAGAGTAATTAATCATAAACTGTATAAAAATCGTGTAAGATTGAC
AGTGCAATTGACCTAGTCCTTGAAGAGTTCTCCATAGACATAGTCTGTCTTGCAGGATTATGAGAATCTTTCT
GGCCCCCTTTGICCAAAAGTGAATGGAATAATGCTCAATATCCACCCATCCTTGCTCCCTTCTTTAAGGGTTCA
AATGCCCATGAGCAAGCCCTGGAACCGGAGTCACAGTTACTGGGTGCACTGTACACTTTGTAGCTGAAGATGTG
GATGCTGGACAGATTATTTGCAAGAAGCTGTTCCCGTGAAGAGGGGTGATACTGTGCAACTCTTCTGAAAGA
GTAAAATTAGCAGAACATAAAATATTTCTGCAGCCCTTCAGCTGGTGGCCAGTGAAGTGTACAGCTTGGAGAA
AATGGCAAGATCTGTTGGGTTAAAGAGGAATGA

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FIGURE 976

MAARVLIIGSGGREHTLAWKLAQSHHVQVLVAPGNAGTACSEKISNTAISISDHTALAQFCKEKKIEFVVVGPE
APLAAGIVGNLRSAGVQCFGPTAEAAQLESSKRFAKEFMDRHGIPTAQWKAFTKPEEACSFILSADFPALVVKAS
GLAAGKGVIVAKSKEEACKAVQEIMQEKAFGAAGETIVIEELLDGEEVSCLCFTDGKTVPMPPPAQDHRLEEGD
GGPNTGGMGAYCPAPQVSNLLLLKIKDITVLQRTVDGMQQEGTPYTGILYAGIMLTKNQPKVLEFNCRFGDPECQV
ILPLLKSDLYEVIQSTLDGLLCTSLPVWLENHTALTVMASKGYPGDYTKGVEITGFPEAQALGLEVFHAGTALK
NGKVVTHGGRVLAVTAIRENLISALEEAKKGLAAIKFEGAIYRKDVGFRAIAFLQQPRSLTYKESGVDIAAGNML
VKKIQPLAKATSRSGCKVDLGGFAGLFDLKAAGFKDPLLASGTDGVGTLKIAQLCNKHDTIGQDLVAMCVNDIL
AQGAEPFFLDYFSCGKLDLSVTEAVVAGIAKACGKAGCALLGGETAEMPDMYPPGEYDLAGFAVGAMERDQKLP
HLERITEGDVVVGIIASSGLHSNGFSLVRKIVAKSSLYSSPAPDGCQDQTLGDLTTPTRIYSHSLLPVLRSGHV
KAFAHITGGGLENIPRVLPEKLGVDLDAQTWRIPRVFSWLQQEGHLSEEEMARTFNCGVGAVLVVSKEQTEQIL
RDIQQHKEEAWVIGSVVARAEGSPRVKVNLIESMQINGSVLKNGSLTNHFSFEKKKARVAVLISGTGSNLQALI
DSTREPNSSAQIDIVISNKAAGLDKAERAGIPTRVINHKLYKNRVEFDSAIDLVLLEFSIDIVCLAGFMRILS
GPFVQKWNKMLNIHPSLLPSFKGSNAHEQALETGVTVTGCTVHFVAEDVDAGQIILQEAVPVKRGDTVATLSE
VKLAEHKIFPAALQLVASGTVQLGENGKICWVKEE

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FIGURE 977A

TGCCATGCTGCTGCACGGACAGGATGTGATCACTGTGTCCAATGGAGGCCGAATCATGCGTTTCCTGGGAGACTAA
CATCGGGGGCCTGAACTGGGAGATAACCCTGGACAGTGGCAGTTTCCAGGCACTTGGGCTGGTTGGCCTGCAGGA
GTCTGTAAGGTACATCGCAGTCTGAAGAAGACTACACTTGGCCTCCATCACCTCTCCAGTGGGCACCTCAAGTG
GGTGAACATCTCCCAGAAAGTGACAGCATCCACTACCAGATGGTGTATTCTTACGGCTCTGGGGTGGTGTGGGC
CCTCGGAGTTGTTCCCTTCAGCCATGTGAACATTGTCAAGTTTAAATGTGAAGATGGAGAGATTGTTACAGAGGT
TAGGGTTTCAACTCCGTGGCTGCAGCACCTGTCTGGAGCCTGTGGTGTGGTGGATGAGGCTGTCTGGTGTGTCC
TGACCCGAGCTCACGTTCCCTCCAACTTTGGCTCTGGAGACGGAATGGGAGTTGAGACAGATCCCACTGCAGTC
TCTCGACTTAGAATTTGGAAGTGGATTCCAACCCCGGGTCTGCCTACCCAGCCCAACCCAGTGGACGCTTCCCG
GGCCAGTTTCTTCTGCACTTGTCCCAAGCCACTATGCTCTGCTGCAGTACCATTATGGAACGCTGAGTTTGCT
TAAAACTTCCCACAGACTGCCCTAGTGAGCTTTGCCACCCTGGGGAGAAGACGGTGGCTGCAGTCATGGCCTG
TCGGAATGAAGTGCAGAAAAGTAGCAGTTCTGAAGATGGGTCAATGGGAGCTTTTCGGAGAAGTCTAGTTCAAA
GGACTCTCTGGCTTGTCTCAATCAGACCTACACCATTAACTTATACCTCGTGGAGACAGGTCCGGCGGCTGCTGGA
CACCACGATAACATTTAGCCTGGAACAGAGCGGCACTCGCCTGAGCGGCTGTATATCCAGGTGTTCTTGAAGAA
GGATGACTCAGTGGGCTACCGGGCTTTGGTGCAGACAGAGGATCATCTGCTACTTTTCTGACAGCTTGGCAGG
GAAGGTGGTGTGTGGAGCCGTGAGGAGTCCCTGGCAGAAGTGGTGTGCTTAGAGATGGTGGACCTCCCCCTGAC
TGGGGCACAGGCCGAGCTGGAAGGAGAATTTGGCAAAAAGGCAGATGGCTTGCTGGGGATGTTCTGAAACGCCCT
CTCGTCTCAGCTTATCCTGCTGCAAGCATGGACTTCCCACCTCTGGAATGTTTTATGATGCTCGGAAGCCCCG
GAGTCAGATTAAGAATGAGATCAACATTGACACCCTGGCCAGAGATGAATTC AACCTCCAGAAGATGATGGTGAT
GGTAACAGCCTCAGGCAAGCTTTTGGCATTGAGAGCAGCTCTGGCACCATCCTGTGGAACAGTATCTACCCAA
TGTCAAGCCAGACTCCTCCTTTAAACTGATGGTCCAGAGAACTACTGCTCATTTCCTCCATCCCCACAGTGCAC
CCTGCTGGTGAAGGACAAGGAGTCGGGAATGAGTTCTCTGTATGCTTCAATCCCATTTTTGGGAAGTGGAGTCA
GGTAGCTCCCCCAGTGCTGAAGCGCCCCATCTTGCACTCCTTGCTTCTCCAGTCATGGATCAAGACTACGCCAA
GGTGTGTGCTGTTGATAGATGATGAATACAAGGTACAGCTTTTCCAGCCACTCGGAATGTCTTGCGACAGCTACA
TGAGCTTGCCCTTCCATCTTCTTCTATTTGGTGGATGCAGAGCAGGGACGGCTGTGTGGATATCGGCTTCGAAA
GGATCTCACCCTGAGCTGAGTTGGGAGGTGACCATTCCCCAGAAGTACAGCGGATCGTCAAGGTGAAGGGGAA
ACGCAGCAGTGAGCACGTTTATTCCAGGGCCGTGTGATGGGGACCGCAGTGTGCTCTACAAGAGCCTGAACCC
CAACCTGCTGGCCGTGGTGACAGAGAGCACAGACGCGCACCATGAGCGCACCTTTATTGGCATCTTCCTCATTGA
TGGCGTCACTGGGCGTATCATTCACTCCTCTGTGCAGAAAGAAAGCCAAAGGCCCTGTCCATATCGTGCATTGAGA
GAACTGGGTGGTGTACCACTGGAACACCAAGGCTCGGCGCAACGAGTTTACCGTACTGGAGCTCTATGAGGG
CACTGAGCAATACAACGCCACCGCCTTCAGCTCCCTGGACCGCCCCAGCTGCCCAAGTCTCCAGCAGTCCCTA
TATCTTCCCGTCCCTCCATCAGTGCCATGGAGGCCACCATACCGAACGGGGCATCACAGCCGACACCTGCTGAT
TGGACTACCTTCTGGAGCAATCTTTCCCTTCCCTAAGGCTTTGCTGGATCCCCGCGCCCCGAGATCCCAACAGA
ACAAAGCAGAGAGGAGAACTTAATCCCGTATTCTCCAGATGTACAGATACACGCAGAGCGATTCACTAACTATAA
CCAGACAGTTTCTCGAATGCGAGGTATCTACACAGCTCCCTCGGGTCTGGAGTCCACTTGTTTGGTGTGGCCTA
TGGTTTGGACATTTACCAAACCTCGAGTCTACCCATCCAAGCAGTTTGACGTTCTGAAGGATGACTATGACTACGT
GTTAATCAGCAGCGTCTCTTTGGCCTGGTTTTTGGCACCATGATCACTAAGAGACTGGCACAGGTGAAGCTCCT
GAATCGGGCCTGGCGATTAAGAACAAGACTGTGCCTAAAAGTGGAGAGCCAGGGGAGTGTGGGTGAGATAAGCA
GCTACAGCTGCAGTTTGGTGGATTGGTGGAGTATGTGTGTGTGTCAGTGCTCAGCTAAGAACTGTAGGGAAGATG
GATGACCTTCACGCAGAACTCCTTTGGGATATACATGATGCAGAAAGGATCCTACATGGAGAGAGACAGAATC
TCTCAGCTGACACTCTCAGAGATTCTGATGGGCTTCTCTTGAAGTCCAAAGGCGTCTGCAATTGTTTCTCTTCT
TTGCCCATCCATGAATGTTCTGTTTTGTTTTTAAATAAGAATTCCGGCTGATTTTTGTGAGGCCGTGTTTAAAT
TGACTTTACTTTGCCTTTTGTGTTTTCTCAATTTTATCTAGAAATCTTCTGACTTTTCCATCTCTTGCTTCAA
GTAAGAGGGGAATCTCCTTGCCGACTCCACCTTATAGGTACATTGGTGTGTTTGCCTGAGGAAGAAATAGGATC
CATCCTTAGCTGAGGCTTGAGGACTGATCCAGCCTCTCATGGCTTCCCTCCAAAGTAACTTAGGGTTGAGGGATC
TATATGTGATGTCAAACCTTACTTTAAACCTCTAGTTTCGTGCTGTCAATTTATTAGGTGGGCCACCAAATCTTT
GTTTCAATTTATCAGAAGCCAAGTGCATACTAGCGTCTGTTTTGTTGGCCATTGCCTATACTTTTACCTGAGAT
GTGTGAGTTGGGGCCTTTTAAAACTACTGAATTGTCTGAGCCTTGAAGACATTTCCAGGGAGAAGAGATAATCT
CTCATTTCACCACAGGCTGGTCTAATCATAACCTAGTTAAAGATGTCCTTGTTTAAAGAACCCCATTTATTTATTT

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FIGURE 977B

TTAGTTTTTAATATAAAATTAACATGTGGGTCATTATATTTCTCCTTAAATGAGGAAATTTTAAATTTTATTGATC
TAACCTTTGAAGCTTTAAAAAAGGAGAAAGAGGGTAGGGGTGGGAACTGGCATACTGTGTGTATAGCACTGCCG
ATTGGCTAGGCCACTGTGTCTCTGCTACAAATTAAGAAATCCTAAAAGTTTTCCTTGGTCATAGAGTTGGGGAA
TGACAGAATTTTTCTTTGTTGTGAAATGTATGTACAGAGTAGACCATCTCTAGCCCTGTGGTGAAAGAGGTACAC
TCGAATGTTTGCATAAAGCAAGTGACAAATGACACTGTTTAAGTCCTCTTTGTGTCTTAGAAGATCATTTTGAG
GCTATTTTACATTAGAGGGGATAAAAGCAGTGAAGACATGGAGTAAGTGATTTTTATTTTAGTAAGGAAAGGTC
AGTTTAATCATATATGGGTGGTTAGGTTATCTAAAAATTTGTCATCTTCTATGGTCATATGCTGATGGTAGAT
TATGGCAGAGAAGGAAGAGGAAATGACAACCATTTTATTAATTGTCAGTTTGATATTGAGTGACTGAATGTCTAA
GAATCTCCAGAAAAAACAGGCATCTATCATCCTGACCCAAGGCATATTTAACATAACCTGGGAGAAGAGAGTT
AAGTACAAGTTAAAAAAATTTCTGCCCTAGTTTTGAGAAAGCCTGGCTGGAATTTCTGACTGTCTTACATACATAT
GTGCAAGGTTAGCCTGCAAGATTCTAGTTTTTATTTACCAGTGTGCCAGAATCTGAAACAAGCTACTGGGAGGGA
AGGTATTTGTCCTTTAGTAAAAATCCCTGTATTTTACAGCTGTAATCAAAGTTACCTCAAAGCAGGTGCTTTTTTTT
TTTTTGAGACCCTGGCTCAAAAACAAAAACAAAACTAGTTTGTTTTAGTATTCAATTAATTACGTATATGAGCAC
TGGTAGICTAGTGTGTTTCTTGTATACAGTGTCTTCTTAAATGAGATGATGCTATTTAATTCTGTTACTTGTGTT
TTTCAACTAATGGATCTTTTAAAGTTTTTTATTTAAATTTTTTGTGGGTACATATTAGGTACATATACTTATGGG
GTACATGAGATGTTTTTATAAAGGCTCAGCTAATGTATCTTGAATATCATGTATTCAATAAGATGACTGAAATAG
TTTCTGGAACAAAGTCTGATAGAAAAAATACTCAATTCCTAATTTAAGTGTTAGAGACTTTAATGTAAGCTATCT
AATCTGAACTAGTTTCATTATTTGTGTGTGGGTACATGTTATGTGCTCCGTAAGGCATCTTTCAATTTGAAAATT
TCATAATTGTAATTTCACTGCCTTTATAAATTGCTTTTTTTTGGAGGCAGGGTCTCTGTCAACCCAGGCTGGAGAG
CAGTGGCAGATCATAGCTCACTGCAGCCTCGAACACCTGGGCTGAAGTGATCCTCCCTCCTTAGCCTCCCAAAG
TGCCGGGATTACAGGCATGAGCTACTGCACCTGGCCCATAAATTGTCATACTTTTAAAGAGCCTATTACACAAAG
TATCATCAGAATCATCCCAAGACTCATTTCCTGATTCCCTAATTATTTAAAAATTTTGCTTTTAGGCGAGGCATGGT
GGCTCAAGCCTATGGTCCCAGCACCTTTGGGAGGCCAAGGCAGGCAGATCATTGAGGTGAGGAGTTTGGGACCAG
CCTGGCCAAACATGGTGAAACCTGAAACCCCATCTCTACCAAAAAAATGAAAAAATTTAGCCAGGTGTGGTGGTGC
ATGCCTGTAATCCCAGCCTCCCGAGTAGCTGGGGCTCAGGCGTGCGCCACCATGCCCCGCTAATTTTGTATATT
TATGGAATGCCAAGAGATAGTTCAATCTGCCTCTCTGGCAAGCCATGGACACCAGGTCTGACAACTCTCTTAC
TCCTTAAGACAAATGCTCACCTGATCAATATGGGGAAATAAGCTGCATGGTACCATAATTTCTATTCTAAAAGGG
AAAAGTATCTCTTTGGTATTGCTTTGGAAAACATCTTTATAACTATCTTGCTATTTAAAAATTGACAATTATCC
TTCCATAATTAACACAGGTAGACAAC

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FIGURE 978

AMLLHGQDVITVSNGGRIMRSWETNIGGLNWEITLDSGSFQALGLVGLQESVRYIAVLKKTTLALHHLSSGHLKW
VEHLPESDSIHYQMVSYSYSGSVVWALGVVFPFSHVNIKFNVEDGEIVQQVRVSTPWLQHLSGACGVVDEAVLVCP
DPSSRSLQTLALETWELRQIPLQSLDLEFGSGFQPRVLPQPNPVDASRAQFFLHLSPSHYALLQYHYGTLSLL
KNFPQTALVSFATTGEKTVAAMACRNEVQKSSSSSEDGSMGSFSEKSSSKDSLACFNQTYTINLYLVETGRRLD
TTITFSLEQSGTRPERLYIQVFLKKDDSVGYRALVQTEDHLLLFLLQQLAGKVVLWSREESLAEVVCLEMVDLPLT
GAQAELEGEFGKKADGLLGMFLKRLSSQLILLQAWTSHLWKMFYDARKPRSQIKNEINIDTLARDEFNLQKMMVM
VTASGKLFGEIESSSGTILWKQYLPNVKPDSSFKLMVQRTTAHFPHPPQCTLLVKDKESGMSSLYVFNP IFGKWSQ
VAPPVLKRPILQSLLLPVMDQDYAKVLLLIDDEYKVTAFPATRNVLRLHELAPSIFFYLVDAEQGRLCGYRLRK
DLTTELSWELTIPPEVQRIVKVKGKRSSEHVHSQGRVMGDRSVLYKSLNPNLLAVVTESTDAHHERTFIGIFLID
GVTGRIIHSSVQKKAKGPVHIVHSENWVYQYWNTKARRNEFTVLELYEGTEQYNATAFSSDRPQLPQVLQQSY
IFPSSISAMEATITERGITSRHLIGLPSGAILSLPKALLDPRRPEIPTEQSREENLIPYSPDVQIHAERFINYN
QTVSRMRGIYTAPSGLESTCLVVAYGLDIYQTRVYPSKQFDVLKDDYDYVLISSVLFGLVFATMITKRLAQVKLL
NRAWR

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FIGURE 980

MGSSVLPFCVCTSPSLGGRCIQGRFASHSKFWGFGGRKTASFGAVGETPPDQEPQKETEPATSSHARPWARVIGL
RIWPQPN

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FIGURE 981

GCGGCTCAGTGCGTGAGGTTGGCGCGGCGCAGTCTTCCTGCTTTGGCGTTGTCTCTCAGGCCATCTCCCCGGTTG
TTGTGCACAGCCACGAAACAAAAGAACAGTGGCCAGAACCTGGAAGAGGACATGGGTCAGAGTGAACAGAAGGCA
GATCCTCCTGCTACAGAGAAGACCCTCCTGGAAGAGAAGGTCAAGTTGGAGGAACAGCTGAAGGAGACTGTGGAA
AAATATAAACGAGCTTTGGCAGACACTGAGAACTTACGGCAGAGGAGCCAGAAATTGGTGGAGGAGGCAAAATTA
TACGGCATTCAAGCCTTCTGCAAGGACTTGTGGAGGTGGCAGACGTTCTGGAGAAGGCAACACAGTGTGTTCCA
AAAGAAGAAATTAAAGACGATAACCCTCACCTGAAGAACCTCTATGAGGGGCTGGTCATGACTGAAGTCCAGATC
CAGAAGGTGTTACAAAGCATGGCTTGCTCAAGTTGAACCCTGTCTGGAGCCAAGTTGACCCTTATGAACATGAG
GCCTTGTTCCACACACCGGTTGAGGGGAAGGAGCCAGGCACAGTGGCCCTAGTTAGCAAAGTGGGGTACAAGCTG
CATGGGCGCACTCTGAGACCCGCCCTGGTGGGGGTGGTGAAGGAAGCTTAGCTG

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FIGURE 982

AGCGGGCTGGGTGCGTGCGCGGCGACTGCGACGGGCAGTGGCAGTCAATGGCGGCTCAGTGCGTGAGGTTGGCGCG
GCGCAGTCTTCCTGCTTTGGCGTTGTCTCTCAGGCCATCTCCCCGTTGTTGTGCACAGCCACGAAACAAAAGAA
CAGTGGCCAGAACCTGGAAGAGGACATGGGTGAGAGTGAACAGAAGGCAGATCCTCCTGCTACAGAGAAGACCTT
CCTGGAAGAGAAGGTCAAGTTGGAGGAACAGCTGAAGGAGACTGTGGAAAAATATAAACGAGCTTTGGCAGACAC
TGAGAACTTACGGCAGAGGAGCCAGAAATTGGTGGAGGAGGCAAAATTATACGGCATTCAAGCCTTCTGCAAGGA
CTTGTTGGAGGTGGCAGACGTTCTGGAGAAGGCAACACAGTGTGTCCAAAAGAAGAAATTAAAGACGATAACCC
TCACCTGAAGAACCTCTATGAGGGGCTGGTCATGACTGAAGTCCAGATCCAGAAGGTGTTACAAAGCATGGCTT
GCTCAAGTTGAACCTGTGCGAGCCAAGTTCGACCCTTATGAACATGAGGCCTTGTCCACACACCGGTTGAGGG
GAAGGAGCCAGGCACAGTGGCCCTAGTTAGCAAAGTGGGGTACAAGCTGCATGGGCGCACTCTGAGACCCGCCCT
GGTGGGGTGGTGAAGGAAGCTTAGCTGCTGTTGATGGGGTGGGTGTTTTAACTCACTTGATGTAACCTCTCAA
GGCTGGTTCAATTGTTTCTCATCTATGAGTACGTGTGACCTTTTCCCAAACCTTATTGAAACCTTAAGTAACCAG
TGGCTAAACAGAAAAGCCGTTGCCCACTGCATTAATGAACCTAATTGCGGAGTCTGTTCCCTTTTAGTGCCA
CGCGTTGAATAGTTCCACATACTTTCAGAAGAGCTCAGCAGGGCCCTGCCTGGTCTCCCGAGCATCATGAGTAAC
GTGCTGCTCAGACTCTGCTGACACCAAAGTATTTTAAACAAATAAAAGGTCTTGGGGAATTCTGTTTGGCTACC
TGGGCACGCCAGTCTGCACCATGTGTCCCTGCGGCGCATGAGTGAAGTGGCGTATTTAGCCCGTCACATTCATT
GCTGAAGGAAAGGCAAGAGAGTTGAAACATTTTTCTTACTTAAAAAAATGATCTTTGTGAAGAACATAGTGAGT
TCGTTTGTCTTCAGTCAACAGCGGCTGAACTGACCACTGAGAAATGGGTGTGGGCACTGACAGTTCTCCCCAT
TATTTGGCCAGGAATTGAGCTTGGCTTGGCAAAGTTCCTTTTACCCTGTTCTGTTTCACTAAATGCAGACATATT
TAAATCATATTCACTAGTTACTAATGACCTCAAGTTGTATTCCCTGGCAAAATGGACTTTCTCAAAATAGGACT
GCACGCTTGGTGACTTTAAATGTTAATGTTTAAATTTTATTTAAGAGGATTAAAGCCCTAATGTTTA
TTTTCTACAAAAAAAAAAAAAAAAA

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FIGURE 983

MAAQCVRLLARRSLPALALSLRPSRLLCTATKQKNSGQNL EEDMGQSEQKADPPATEKTLLEEKVKLEEQLKETV
EKYKRALADTENLRQRSQKLVEEAKLYGIQAFCKDLLEVADVLEKATQCVPKKEIKDDNPHLKNLYEGLVMTEVQ
IQKVFTKHGLLKLNPVGAKFDPYEHEALFHTPVEGKEPGTVALVSKVGYKLHGRTLRLPALVGVVKEA

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FIGURE 984

GGGGGAGAGGGGGCTCAAGGCGAGCGCGCCGGGAGTTGCGGGCGCGTGGCTGCTGAGGTTGGCGGCGGTGCCGC
GCGCCCGACGGGGCCGGTGGTTGCGGGGCTCCCGCTCGACCCGGGCTGGGGGAGCCGTGGCGGCCCGGGGA
CCGCAAGGGGCGGAGGAAAGGAGGGGGCCGGTCCCGGCACGAGAGGAGCAGCCGACCATGCCCGAGACAAAT
GGCCTCCTTGATCCAACGGATCGCCCGCAGGCTTGCTCACCTTCCGGGGCAGCTGGGGCGGCCGCGGCTTC
CGATCGCGACGCGGCTTCTGGCGCGGAGCGCGGATGACAGCCGGGCTTCCCGAGAACCTGAGCAAGCTGAAGAG
CCTCTGACCCAGCTCCGCGCGGAGGACTTGAACATCGCCCCGCGCAAGGCCACACTGCAGCCGCTGCCGCCAA
CCTGCCGCCAGTCACCTACATGCACATCTACGAGACGGACGGCTTCAGCCTGGGCGTGTCTCTGCTCAAGAGCGG
CACGTCCATCCCGCTGCACGACACCCGGGCATGCACGGCATGCTCAAGGTGCTGTACGGCACCCTGCGCATCAG
CTGCATGGACAAGCTAGACGCGGGCGGGCGGCAACGGCCGCGGGCCTTGCCGCCGAGCAGCAGTTGAGCCGCC
GCTGCAGCCCCGGGAGCGAGAAGCCGTGCGGCCGGGCGTGTGCGTTCGCGGGCCGAGTACACCGAGGCCAGCGG
CCCCTGCATCCTCACACCGCACCGGGACAACTGCACAGATCGACGCCGTGGAAGGGCTGCCGCTTCTTGGA
CATCCTGCCCCGCCCTACGACCCGGACGATGGCCGGGACTGCCACTATTACCGGGTGTGGAGCCGGTCAGGCC
CAAGGAGGCCCTCCAGCTCGGCCTGTGACCTGCCTCGAGAGGTGTGGCTCCTGGAGACCCACAGGCCGATGACTT
CTGGTGCAGGGGAGAACCCTATCCAGGTCCCAAGGTCTTCCCTTGAAGCCACTGGCGCCAGGAGCGGTGGGCCG
AAGACGTGCCCTACCCTACCACAAGGGCTGTGTCTTACCCCTAGCCTGGGCGTTGGATCTACTGGAATGAGCA
GCAGCCGCTTCTCGGCAGCCTTGGGAAGCACGGGCGACTGGACAGCAGCCGCCGGGCACGGTTATGGGGCGGG
GTGGGCGGGGAGGCTAGATTGTTTCTGTTACTGTCACTGCCACTGGGGCTTGAATTTGGAGGAATGGGGCAGGG
GACTATCTGAAGCGCTTCCATCCTAAAGCCATAATGAAATATCTTCTCTCTTCCCATCTATACAAAATACT
AAGTGGTTTTCTTGCTCCCACTCCCTACCCCTTAGTTAAATAGGGTTTATTTTCCACTCATGCCCTTATGCCTTT
TTTTCTTATAGTTTTTTAACTTATTGACTGTGCATGACCCAGTGGTTTGAATTGTTTTTAGTTCAAGTCATTGGT
AAAACTAGGTTTAAGGAGATGAGCTACTGTTTAAAGTGAGCTGGCCTGCCTAATTAATTCTGTGAAAATAA
ATGATTTTTTCAGTTTGGGGATCATTCTCACAACTAATATGCATGTAGAGGACAAGATTTATTTCTTCTC
CCTTTGCCAGTAGCCACATCTGGTTTACTCAGGCAGCATCTACTAAGAAATTCAGCACCTGCATATCTCTGTGA
CATGGTCACTTAGAGCTTATCTTCCCTATGAATCTCCAGATCTGTGAGTCGAGCAGATTTTATGTTGCAGATTCA
CCTTTAATGCAAAGACTGTATTATCCTCACATGACTTTTTTCTGTCTTACTGTACCTTAAAGGTGATAGAGT
AATCTGTATTTCTAACGGGAAGATTCAAAGGAGCTGAATGTGTATGCTTCAAACAACCTGAATGTAAACAC
TCCTAGCCAGTTGTTGCATTCCCTATATTTTACTTCCAAATATTTTACTGTAAAAGTAGGGAGAAATATTATG
TTGATAGTTGTTTCATATTCTCTCAGGAACTTAATGTTCCCGACTCGGGTGATTCCAGCTGTGTGCTGGCAGT
GTTGTCTCAACCTCTCCCTAAATGACTGAGCCCTGGGTTTCACTAATGTGGTTTTCTTAGGAAGAGATAGAA
GGCACAGAAGATCACAGCTAGAGAATTGAGAATTAATACTACTAGCCATTTAGGGCACCAAACTTGGGAT
TAAACACTTCTACTTCCCACTCCCACTCCTGAAATGAAGTCTTGCTATCTGTGACTAGTTTTATTTTTGTGCT
TTAATAGTCCGAGCAGTCTTACCTTGTGTACACATGTATTGACACCATTTGCTTCAGGCCATGGAGCACTGTTT
CTCCCTTTTTTACTATTTATAGGATTCGTTTTTTCACAAGACTTTTAATAAAAAGAAATTGTAGAAATAAACAC
ATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 985

MQPGFPENLSKLKSLLTQLRAEDLNIAPRKATLQPLPPNLPPVTYMHYETDGFSLGVFLLKSGTSLPLHDHFGM
HGMLKVLYGTVRISCMKLDAGGGQRPRALPPEQQFEPPLQPREREAVRPGVLRSAEYTEASGPCILTPHRDNL
HQIDAVEGPAAFLDILAPPYDPDDGRDCHYYRVLEPVRPKEASSACDLPREVVWLETPQADDFWCEGEYPYGP
VFP

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FIGURE 986

CCCTCTTCGTTGGGGCCCTCCCTGTCCCTCTCTGTACCTCACAGTAGTCGTTGCCGGTAGCGGGTGTGGGG
CGCGAGCAGCGCAGGGCGGCTCTCCCCACCCCTACAGCCCGGGCCCGGGCTCGGTCCCCCTCTCCCTCCGC
TTCGCACTCCCGTCGGGTACGGGAAGGTCCAAGCCGCTGCCGGGTGCCGAGGGCCGTCGTGGCCGCCGTGCCA
CGGGTCCCAATGGAGCCGCCGAATCTCTATCCGGTGAAGCTCTACGTGTACGACCTGTCCAAAGGCCGTGGCCGG
CGGCTCAGCCCCATCATGTGGGGAACAACCTGGAAGGCATCTGGCACACATCCATAGTTGTGCACAAGGATGAG
TTCTTCTTCGGCAGTGGTGGTATCTCCAGCTGCCCCCGGGAGGGACATTGCTTGGGCTCCAGACTCTGTGGTT
GATGTGGGGAGTACAGAAGTCACAGAAGAAATCTTTCTGGAGTACCTCTCCTCCCTGGGGAGTCCCTGTTCGA
GGTGAGGCCTACAACCTCTTTGAACACAATTGTAACACCTTCAGCAACGAAGTGGCACAGTTCTGTACTGGCGG
AAGATTCTTCTTACATCACAGACCTGCCCTCTGAAGTTCTCTCCAGCCCTTTGGACAGGCACCTTCGGCCCTC
CTGGACTCCATTAGATCCAGCCTCCAGGAGGGAGCTCCGTGGGCAGACCAACGGCCAGAGCTAACAGGACTGC
CTGGGACCGCCCTGCCCTACCAGGGCTTTTCTTTTTAAACAAAACAAACCTACCAGATTCTATTTTATAATT
TTACATCAGAGCTAACACCAGGGGACGGCTTTTTAAATTTCCAGGGAAGGAGACCGTCAGGCCGCATGTAGAC
AATGCTGCTAAGAAACAGAACAATAATGCCACCCCTTCTAATAGTATTATACTAATTTATTAAGGCTGTCTGTCT
GTGCGTTCACTTCGGATGCTGTTTCTAAGCGTCTCCACACTGGAGAAAGGGAGGGGCTTTGTTTAAACAGAAA
GCGAGTCACAGTTTGGGGAGCCCCAACCTAGAACTTTCCAGAGAACTCAGCTCTACCCAAGTTGCCAAC
ACCTGTGGGACCCAGGTGAGTTTTAGAACATCCGTGACCAGAAAGTTACTCTAGTGTTAAATGAACCAAAGGAT
TTGGTGTACATGGGACCGTTTCAGGATGACTAACCTAACCTAAGTGAATCTTTAGCCACAACCTCACCTTCC
CTCCCTTACCCCAAGCAAGGCCAGTGCTGGAGCAGCCATTGCCCTCCGATCAAGGGAGTAACAGCAAGTATCAGG
CCGGAGAAAACAGGATAAAGCCATTCTCTTCCACCTAGATGGATTGCCAATCTTCTGCCATCAATTTTGGGAA
ACCTGCCTTTGTGCCCCGAGGCTGCCTTCTCTCAGCATAGCTGACTTGTCTAGTGGATGAGGTCTGGGCTGGA
GCAGTAGAAGCCAAGGCCTTTTTCTGCAAGTAATGATGTAGGTTATTTGCAGTCTCTGTAACCACCATCCAGGC
CAGTAGCAGTATTTAGCTGGGGACCAAGGGATGGGATTCCCTACTCTAAGAAAATACCTTTATTTTAAATTATTA
TTATTTTTTGTAGACGGAGTCTCGCTCTACCACCCAGGCTGGTGTGCAGTGGCATGATCCCGGGAGGCAGAGATTG
CGATGAGCCGAGATCGTACCAGTGCCTCCAGCCTGGGCGACAGAGTGAGACTCCATCTCAAAAAATAAATAA
TGAAGTGGAAATCAAGGTGGCAAGAAAATTTAGAATCGTTTCTGATAGGGACTTTCCCTTATCCTAAATGTGTTTT
GAAGGCACACGTTATTTCCATTGTCTATTCTGACTTTAGAAAGGCAGGTTGGGGCATGAGTGGGCATTTTCTTAAT
GACTTGCTGTAGGAGGTTATAGGCAGGGAACAGTCTGGGAGTCTCTAATCCAGAGAGACTTTCAGATTCCCTCT
CTTCACATGAACCTCCATTAGTTAGATTTTGGGAAAGTGAGCATGAAGAAGGGACTCAGAGCTGCCAGGTACCCG
AGTCTCAGGTCTGACATCCTTGGGCCCTTCTGCCACAACCTTCTGCCACTTCACGGACTTGAATTATGTGCTT
CTTCTGGAAGTCTGGCCTGCAGCACAGGCCTTCTCTCCAAAAGCTGCTGCTCATTCTGGCCCCATCTGCT
GCTATCTTTGCCATCAGCCATCACAGTTTGGCATCATCAGAGTCTCAGCTAGAGGAGCTGTCTTCTGCCTTAGT
GTTTGCTGCGACCTGACCAGGGGCATGACCAGCTGGGATGTCAAGTGACATTGGGAACTTGTAGAGGCCAAAT
GATTGAAAGTTTAAATCTTCTCAAGACCCACTGATTGGCAGTGTGCATGGAAATAATAGATTAGAGCAGAACT
AGCAGGGACTGTTGTATAATCGTGATCTACTAGCAGAATTGGGCCCAAAGAGAAAGAAATTTCTGAGGCTGGGTTT
CTTCTGGGAGGGTAGCAGGTTGGTCTTGGCCAGTGCTCTGTTTCCACCAAGTGTGTTCCCTTTTCCAGCTTGCC
TGGCCCGCTCTGTCTTCCAGGTCCTGCTCCAGACCCCTCTGCTGGGGTCTCCCTCCATCCAGGGGGTTCTG
GGCATCACAGCTCCTTTTTTTTCTCTCTCTTCCAGATCCAGTTTTCAGCTGGTTTGTCTTCTTCCAGCAGGCA
CCCTTAGGCCAGGAGCAGCTCCCTGAGAGAATTTGAGTCACTCATTTCCTTGAACAGCACCCCCCTTTTATACT
AGCAGCCATTTGTGCCATTGCCTGTGCCCTAGGGTTTGTGGGGAGAGAGCGAGGGATCACTGAGCAGTTTCCCA
GAGCTCCATGGGAAGGCAAGCTCTCCCTCCCAATGGGAGCCCCACTGTCTAACTGTAACTCAGGCTCAGGCT
TCAACTGCCTACCCCATCTCATATTTCTGTCTGTCCAGCACCTCAGGAGCATTCTCATTGTGGCCGGCTAAC
TCCGCTGGATGTGAACAGGCAAGCACAGTGGGAAATGAGTACGTACTTGTATGCACAGTGGACACCTCTAGA
GGTCCATTGGTTTAAAGGGATAGGGAAGGAGGAGGATGAGACCATCACCCCTCCAGAAGTAAATCTAGTATC
TGAGTTTTCTTTATGCCCTTGAGTCAAATAAAGTGTCTAGTACGGAGGTGTTGCTGGTTTTCTTCGGTGTT
TTTTCTAATGCAATAAACTCATTCTGCCTGCTCG

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FIGURE 987

PLPCGPSLSPLCHLTVVVAGSGCGGASSAGRPLPHPYSPGPGSVPPSPSASHSRRVREGPSRCRVPEGRRGRRRH
GSQWSRRISIR

[illegible]

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FIGURE 989A

TTGCTGCGTCAACTGTGTTCCCTTTGGCCTGGCTGAGTTTGATACTGTGGGGATTGAGTTTAGGCGCTGGCCCGA
GGATATCCCAGCGGTGGTACTTCCGAGACACCTGTCTGCATCTGACTGAGCCGGCTCTCCTGGCCTCGCGCTGCA
CATTCTCTCTGGCGGGCGGCCACCTGCAGTAGCGTTCCGCCGAACATGGCGACACGGAGCAGCAGGAGGGAGT
CGCGACTCCCGTTTCTATTACCCCTGGTCCGACTGCTGCCGCCCGGAGCTCTCTGCGAAGTCTGGACGACAGGGC
TGCACGGCGGCAGCGCGCCCTTGCCCCAGGACCGGGGCTTCTCTGTTGGTGCAGGGCGACCCGCGCGAGCTGCGGC
TGTGGGCGCGGGGATGCCAGGGGGGCGAGCCGCGCGGACGAGAAGCCGCTCCGGAGGAAACGGAGCGCTGCCC
TGCAGCCCAGCCCCATCAAGGTGTACGGACAGGTTAGTCTGAATGATTCACACAATCAGATGGTGGTGCCTGCGG
CTGGAGAGAAAAGCAACGTGATCGTGGCCTTGCCCCGAGATAGCCTGGCATTGGCGAGGCCCCAAGAGCAGTGATG
TGTACGTGTCTTACGACTATGGAATCATTCAAGAAAATTTAGACAAGTTAACTTTGGCTTGGGAAATAGGA
GTGAAGCTGTTATCGCCAGTTCTTACCACAGCCCTGCGGACAACAAGCGGTACATCTTGCAGACGCTTATGCCC
AGTACCTCTGGATCAGGTTTGAATCTGCAACACTCTTCAAGGCTTTTCCATCCATTTCGGGCAGCTGATCTCC
TCCTACACAGTAAGGCTTCAACCTTCTTGGGCTTTGACAGGTCCACCCCAACAAGCAGCTGTGGAAGTCAG
ATGACTTTGGCCAGACCTGGATCATGATTGAGGAACATGTCAAGTCTTTTCTTGGGGAATTGATCCCTATGACA
AACCATAATACATCTACATTGAACGACACGAACCTCTGGCTACTCCACTGTCTTCCGAAGTACAGATTCTTCC
AGTCCCGGAAAACAGGAAGTATCCTTGAGGAAGTGAGAGATTTTACGCTTCGGGACAAGTACATGTTTGCTA
CAAAGTGGTGCATCTCTTGGGCAGTGAACAGCAGTCTCTGTCCAGCTCTGGGTCTCCTTTGGCCGGAAGCCCCA
TGAGAGCAGCCAGTTTGTGACAAGACATCCTATTAATGAATATTACATCGCAGATGCCCTCCGAGGACCAGGTGT
TTGTGTGTGTGTCAGCCACAGTAACAACCGCACCAATTTATACATCTCAGAGGCAGAGGGGCTGAAGTTCTCCCTGT
CCTTGGAGAACGTGCTCTATTACAGCCAGGAGGGGCGCGCAGTGACACCTTGGTGAGGTATTTTGAATGAAC
CATTTGTGACTTCCACCGAGTGGAAGGATTGCAAGGAGTCTACATTGCTACTCTGATTAAATGGTTCTATGAATG
AGGAGAACATGAGATCGGTGATCACCCTTGACAAAGGGGGAACCTGGGAGTTTCTTACGGCTCCAGCCTTACCGG
GATATGGAGAGAAAATCAATTGTGAGCTTTCCAGGGCTGTTCCTTCTGCTGAGTCTGAGTCTGAGTCTGAGTCTC
TCAACCTCCAGCTCCGGAGAATGCCATCCTGTCCAAGGAGTCCGCTCCAGGCTCATCATCGCCACTGGCTCAG
TGGGAAAGAACTTGGCTAGCAAGACAAACGTGTACATCTCTAGCAGTGTGAGGCCAGGTGGCGAGAGGCACTTC
CTGGACCTCACTACTACATGAGGAGACACGGCGGAATCATCAGGCCATTGCCAGGGCATGGAACCAACG
AGCTAAAATACAGTACCAATGAAGGGGAGACCTGGAAAACATTCTCTCTGAGAAGCCAGTGTGTTGTGATG
GCCCTCTCAGAACCTGGGGAGAAGAGCACTGTCTTACCATCTTTGGCTCGAACAAGAGAATGTCCACAGCT
GGCTGATCTCCAGGTCAATGCCACGGATGCCCTTGGGAGTTCCCTGCACAGAGAATGACTACAAGCTGTGGTCAC
CATCTGATGAGCGGGGGAATGAGTGTGTTGTGGGACACAAGACTGTTTTCAAACGGCGGACCCCCATGCCACAT
GCTTCAATGGAGAGGACTTTGACAGGCCGGTGGTCTGTGCTCAACTGCTCCTGCACCCGGGAGGACTATGAGTGTG
ACTTCCGTTTCAAGATGAGTGAAGATTGTGATTAGAGGTTTGTGTTCCAGATCCGGAATTTCTGGAAGTCAT
ACTCCCTCTCTGTGCTTGGCCTGTGGGTTCTACTTACAGGAGAACGAGAGGCTACCGGAAGATTTCTGGGGACA
CTGTAGCGGAGGAGATGTTGAAGCGCGACTGGAAGGAGAGCTGGTCCCCTGTCCCCTGGCAGAAGAGAACGAGT
TCATTCTGTATGCTGTGAGGAAATCCATCTACCGCTATGACCTGGCCTCGGGAGCCACCGAGCAGTTGCCCTCA
CCGGGCTACGGGCGAGCAGTGGCCCTGGACTTTGACTATGAGCAAACTGTTTGTATTGGTCCGACCTGGCCTTGG
ACGTATCCAGCGCCTCTGTTTGAATGGAAGCACAGGGCAAGAGGTGATCATCAATTCTGGCCTGGAGACAGTAG
AAGCTTTGGCTTTTGAACCCCTCAGCCAGCTGCTTTACTGGGTAGATGCAGGCTTCAAAAAGATTGAGGTAGCTA
ATCCAGATGGCGACTTCCGACTCACAATCGTCAATTCTCTGTGCTTGATCGTCCCAGGGCTCTGGTCCCTCGTGC
CCCAAGAGGGGGTGATGTTCTGGACAGACTGGGGAGACCTGAAGCCTGGGATTATCGGAGCAATATGGATGGTT
CTGCTGCCTATCAGCTGGTGTCTGAGGATGTGAAGTGGCCCAATGGCATCTCTGTGGACGACCACTGGATTACT
GGACGGATGCCTACCTGGAGTGCATAGAGCGGATCACGTTTCACTGGCCAGCAGCGCTCTGTCTTCTGGACAACC
TCCCGCACCCCTATGCCATTGCTGTCTTTAAGAAATGAAATCTACTGGGATGACTGGTACAGCTCAGCATATTCC
GAGCTTCAAATACAGTGGGTCCAGATGGAGATTCTGGCAAACAGCTCACGGGGCTCATGGACATGAAGATT
TCTACAAGGGGAAGAACTGGAAGCAATGCCGTGTGTGCCAGGCCATGCAGCCTGCTGTGCTTGGCCAGGGCA
ACAACAGTAGAAGCTGCAGGTGTCCAGAGGATGTGTCCAGCAGTGTGCTTCCATCAGGGGACCTGATGTGTGACT
GCCCTCAGGGCTATCAGCTCAAGAACAATACCTGTGTCAAAGAAGAGAACACCTGTCTTCGCAACCACTATCGCT
GCAGCAACGGGAACGTATCAACAGCATTTGGTGGTGTGACTTTGACAACGACTGTGGAGACATGAGCGATGAGA
GAACTGCCCTACCACCATCTGTGACCTGGACACCCAGTTTCGTTGCCAGGAGTCTGGGACTGTATCCCACTGT

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FIGURE 989B

CCTATAAATGTGACCTTGAGGATGACTGTGGAGACAACAGTGATGAAAGTCATTGTGAAATGCACCAGTGCCGGA
GTGACGAGTACAACIGCAGTTCCGGCATGTGCATCCGCTCCTCTGGGTATGTGACGGGGACAACGACTGCAGGG
ACTGGTCTGATGAAGCCAACTGTACCGCCATCTATCACACCTGTGAGGCCTCCAACCTCCAGTGCCGAAACGGGC
ACTGCATCCCCAGCGGTGGGCGTGTGACGGGGATACGGACTGCCAGGATGGTTCCGATGAGGATCCAGTCAACT
GTGAGAAGAAGTGCAATGGATTCCGCTGCCAAAACGGCACTTGCAATCCATCCAGCAAACATTGTGATGGTCTGC
GTGATTGCTCTGATGGCTCCGATGAACAGCACTGCGAGCCCTCTGTACGCACCTTCATGGACTTTGTGTGTAAGA
ACCGCCAGCAGTGCCTGTTCCACTCCATGGTCTGTGACGGAATCATCCAGTGCCGCGACGGGTCCGATGAGGATG
CGGCGTTTGCAGGATGCTCCCAAGATCCTGAGTTCCACAAGGTATGTGATGAGTTCCGTTTCCAGTGTGAGAATG
GAGTGTGCATCAGTTTGATTGGAAGTGCGACGGGATGGATGATTGCGGCGATTATTCTGATGAAGCCAACTGCG
AAAACCCACAGAAGCCCCAACTGCTCCCGTACTTCCAGTTTCGGTGTGAGAATGGCCACTGCATCCCCAACA
GATGGAATGTGACAGGGAGAACGACTGTGGGGACTGGTCTGATGAGAAGGATTGTGGAGATTACATATTCTTC
CCTTCTCGACTCCTGGGCCCTCCACGTGTCTGCCAATTACTACCGCTGCAGCAGTGGGACCTGCGTGTGAGACA
CCTGGGTGTGCGACGGGTACCGAGATTGTGCAGATGGCTCTGACGAGGAAGCCTGCCCTTGCTTGCAAACGTCA
CTGCTGCCTCCACTCCACCCAACTTGGGCGATGTGACCGATTGAGTTCGAATGCCACCAACCGAAGACGTGTA
TTCCCAACTGGAAGCGCTGTGACGGCCACCAAGATTGCCAGGATGGCCGGGACGAGGCCAATTGCCCCACACACA
GCACCTTGACTTGCAATGAGCAGGGAGTTCCAGTGCGAGGACGGGGAGGCCTGCATTGTGCTCTCGGAGCGCTGCG
ACGGCTTCTGGACTGCTCGGACGAGAGCGATGAAAAGGCCTGCAGTGATGAGTTGACTGTGTACAAAGTACAGA
ATCTTCAGTGGACAGCTGACTTCTCTGGGGATGTGACTTTGACCTGGATGAGGCCCAAAAAAATGCCCTCTGCAT
CTTGTGTATATAATGTCTACTACAGGGTGGTTGGAGAGAGCATATGGAAGACTCTGGAGACCCACAGCAATAAGA
CAAACACTGTATTAAGTCTTGAAACCAGATACCAGTATCAGGTAAAGTACAGGTTTCAAGTGTCTCAGCAAGG
CACACAACACCAATGACTTTGTGACCTGAGGACCCAGAGGGATTGCCAGATGCCCTCGAAATCTCCAGCTGT
CACTCCCCAGGGAAGCAGAAGGTGTGATTGTAGGCCACTGGGCTCCTCCATCCACCCATGGCCTCATCCGTG
AGTACATTGTAGAATACAGCAGGAGTGGTTCCAAGATGTGGGCCTCCAGAGGGCTGCTAGTAACCTTACAGAAA
TCAAGAACTTATTTGGTCAACACTCTATACACCGTCAGAGTGGCTGCGGTGACTAGTCGTGGAATAGGAACTGGA
GCGATTCTAAATCCATTACCACCATAAAAGGAAAAGTGATCCACCACCAGATATCCACATTGACAGCTATGGTG
AAAAATATCTAAGCTTACCCTGACCATGGAGAGTGATATCAAGGTGAATGGCTATGTGGTGAACCTTTTCTGGG
CATTGACACCCACAAGCAAGAGAGGAGAAGTTTGAAGTTCCGAGGAAGCATATTGTCACACAAAGTTGGCAATC
TGACAGCTCATACATCCTATGAGATTCTGCCTGGGCCAAGACTGACTTGGGGGATAGCCCTCTGGCATTGAGC
ATGTTATGACCAGAGGGGTTGCGCCACCTGCACCTAGCCTCAAGGCCAAAGCCATCAACCAGACTGCAGTGAAT
GTACCTGGACCGGCCCCCGGAATGTGGTTTATGGTATTTTCTATGCCACGTCTTTCTTGACCTCTATCGCAACC
CGAAGAGCTTGACTACTTCACTCCACAACAAGACCGTCAATTGTGCTAGTAAGGATGAGCAGTATTTGTTTCTGGTCC
GTGTAGTGGTACCCTACCAGGGGCCATCCTCTGACTACGTTGTAGTGAAGATGATCCCGGACAGCAGGCTTCCAC
CCCGTCACCTGCATGTGGTTCATACGGGCAAAACCTCCGTGGTCAAGTGGGAATCACCGTATGACTCTCCTG
ACCAGGACTTGTTGTATGCAATTGCAGTCAAAGATCTCATAAGAAAGACTGACAGGAGCTACAAAGTAAATCCC
GTAACAGCACTGTGGAATACACCCCTTAACAAGTTGGAGCCTGGCGGGAAATACCACATCATTGTCCAACTGGGGA
ACATGAGCAAAGATTCCAGCATAAAAAATTACCACAGTTTCATTATCAGCACCTGATGCCTTAAAAATCATAACAG
AAAATGATCATGTTCTTCTGTTTTGGAAAAGCCTGGCTTTAAAGGAAAAGCATTTTAATGAAAGCAGGGGCTATG
AGATACACATGTTTGTAGTGCCATGAATATCACAGCTTACCTTGGGAATACTACTGACAATTTCTTTAAATTTT
CCAACCTGAAGATGGGTGATAATTACACGTTACCGTCCAAGCAAGATGCCTTTTTGGCAACCAGATCTGTGGGG
AGCCTGCCATCCTGCTGTACGATGAGCTGGGGTCTGGTGCAGATGCATCTGCAACGAGGCTGCCAGATCTACGG
ATGTTGCTGCTGTGGTGGTGCCATCTTATTCCTGATACTGCTGAGCCTGGGGTGGGGTTTGCCATCCTGTACA
CGAAGCACCGGAGGCTGCAGAGCAGCTTACCGCCTTCGCCAACAGCCACTACAGCTCCAGGCTGGGGTCCGCAA
TCTTCTCCTCTGGGGATGACCTGGGGGAAGATGATGAAGATGCCCTATGATAACTGGATTTTTCAGATGACGTCC
CCATGGTGATAGCTGGAAGAGCTTTCCTCACTAGAAACCAAATGGTGAAATATTTTATTTGATAAAGATAGTT
GATGGTTTATTTTAAAGATGCACCTTGTAGTTGCAATATGTTATTTTATATGGGCCAAAAACNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNGGAATGAATAAACTTTGTAGTAATCAACTGTGAACCTCAAACCAGGTTGATTTTA
GTAACCAATTGCTTTGATTGACATTAATGTAGTCTTACAGGGCTGTGCTTGCTGGGCATGCTTTTACGTCTGT
GAGATAATTTCCGTTTCAGTAAATTGGCCAATCTTTTATTTTCTAAGACACAGAAATGTATTTAATAAAAACTT

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FIGURE 989C

CGAGAGAGTGATGGGTGGAACCCCTTCTCCTTGAAAGTGTGTACAGATATTCCATTTTGTGGATATAGTTTAT
AGGAAAGTGTGTGGATGTATTATGGCGGAAGGTTTCTTTATGTTATTTTGTAAATTTATGGGACTCTGTGAAG
GCCAGGCTTTAGTGGTCATTAGACACCACATGTGTTATGAGCCCTTACCCATAGGGTTGGGGGTGGGAAGAGAA
GCATATTTTTTTGCCATTCCGGAAGCAATCCATTTTTATTCACTTGTGTGTCATGTAATGGTCTTTGGCAGGAGA
GAGCACTGAGTCATTGCTGGAGTTCACTTCAACAGAGCTGCAGCTTGGGAAGCCCTGTAAGCCACAGCTTCCTC
TCTTATATTAATTGATGGAATTTTACTGTATGTGCCTCTGTACAAGATGTAGCTTTGAGAGCTACAAAATGATAA
CACTGCTTTATTACACACTGGTTTCATTGTCAATTGCAAAAACCTTACCCTGGTTGTGGGGGAGAGTTCTAGATCTG
TGCCATGATCCATACACTGGCTAATAGAGTACATAATTTTTCCATTTTCCATTTTTTGTTTTACTTACTACTGA
AGGATCTCAGATGTAAATTTATGTATTTGGTTTGAGATGGCCACTTATTGTCCTTAAAAATCCATACTGATATAT
GCAGTCATTTTGAATTGGACAGTGCCTTCTCTTTTTTTTTTCTCCTCTTCTCCATCTCCCTCACCCATGCCCCA
CCCAATCTAAAGAGACAGTGTGTACATTCTCATAGAGATAGAGAAGATCTAAAAAGTTGAGACTACTCAATCCA
GTTAACACAGCAGGAGCACTAGAGTTTGTTCATTTATTCTCTCTGTAAAACAAGCTGTGCTTTTTTCTTCTGC
CTTTAAAAATGCCACCCGTGTATTCAAACCATGGCCACTTGATACTTATGTAGAATCCATCGTGGGCTGATGCAAG
CCCTTTATTTAGGCTTAGTGTGTGGGCACCAATGTCGAGCATCGTTGTGACTTGTGCTGTATGATTCTCACTGA
AGAATTTCTTTTCAGCCAAGAAGCAGTGAGGTCTGGGAATATTCCAAAGTCATGTCTCTGAATATGTGTCTTGA
CGTGCAAGCTTTGTAAAACCCCATCCCCGCTTAGGTGCGAGGCATCACCTTCTCACAAGTGTTTAGTTTTCTTTA
ACCACAAGTATCATTCTTGGGTGATAATATAGTTTCATTCTACTTAGGGATTGTTTAGAAAACAAAGAAAGAGCC
AATTAAATTTTTTAGTTTTTGAATTTTTTATTATATGTATACTTAGATGAGTATTTTAAGCTGTGACCTTTAG
TTTGCCATACGGGTAGGACTGTATTTTCATGTTAACTGTTGGAATGATAAGCCTTCTTCTAGCGTATTTTCT
CTTCTTTCTGTCACTTTCTAAGTTTTTTTTTTTAAAGACTGGAATTTTTTTGGCTTTTATCTTGTCTTACCGT
AGAGATTTGTCAAACCTCTAAGCCCTACCACTCCCTTTAATAAGCTCTTTAAATAGTTGAATCATTAAACAC
CTGGTGGGAGGCAAGTCATTTAATTGAACCACTAGGAAGTGATTTTTCTTTCTTTTTCTGCCAACTTTTTGGTG
GCATTTGTAAAAGCTGATATAAAAGGCTCTGAGATGTTATTTTCAGTTATTCATAGGCAAGCCTTTTTACAGAG
CATATGCTCTCAGTTGGCAGCTTGAGATATTTCCGAGCATCCGGTTCTAGCTACCAGTGCCTCCCAATGCTTAGT
GCACAGTACTGTAGACTGGCCATCACCCCTCTCCTTGGAAAATGCCACTGTGCTGTTTGAAGAAAAGCAGCCTT
TAGGGCTAGAGTATTTTATATAAACAGAGAGCTAAGTTCTGAAAGCTAAGCTAGATAGCTGCAGCTATATGTA
AATTGTATATTTTATGAACCTTTGAAGCACACACTCCTGTTTCCCTCTGTGTAGCTTTGTGGGGATTTCATGTA
TATATGCTGTCTGAAAGAATCCAGAGGTTGGAGTGCCAATAGAAAATGAAAACAAATGCCTTGTAACAGGCAG
CCTCTGAAGGTGACCACATACTGTCTTCACTGTGACCAATCGGAGTCCCTGCTTGTGTGAAGAAGGGGCTTT
TGTACCTTGTGGAGATGCCACCTCAGAAGTTCACACTGTGCAAGGAAAAGGTTTTATTCTCTCTGGCATACAT
TAGAATGTCAAGTGCCTGCATCCATGTGGACCACGATGGGCCCTCTAAAAATGGTGGGCAGGGGGTTGCTTATG
AGTTTTCTCTGGAAACCGATTTTACTCCTGGATGTATTGAATGCCCTTGAGCTTTATGAGATACGAGTCCACAT
GGATAAAATGTTAGAGAGTGGAGTTCTACAGAGGATTCCAGGAAGAGGCCATGTCTGTGCAGTCCCTAGTTCCAGA
CAGGTGAGAAGCTCCAGGAACCTACTGGCTACCTTGACAAGCTGGGTAAATAGTTATCATTCTGGGTAACTGGTTG
AACTCTGACTTTTGGACAAGTAATTCCTGGGGTCTGTCTTTGGTAGCATCACCAGGGATATTGGGTGGGACA
GACAGAAGACACACAGCTGCCTGTTCTCTCTGCCCATCATGTTTGGCCCACTAGATGAAGCTGTACTCAGCAAT
TTAGGGAATGTAACCTTCTCAGAACTGGCCATTTTCAGGGGAAGCTTGGGAGAGCAATAGTATGGTGAGCCCT
TAGAGATGAGCGCTACTCCTTCTTGGCGAATGCTGCCTTCAGATGCTTACCAAGTGGTCACTGCATCTAGTAAG
ATTATATTTCCAGTACACTTCCTTAGGGCAGAAACCAATCCTATCAGGTTTGGTCAGTCCCTTCTCATGAAGG
GAGTCATGGGGAATTCCTGAAAATTTCTTCTTCTGCAGACAGTTGGATGAGTCCCTTAGAGAAGGCATCCAGA
GACATAACTAACTGAATATCATCCCATATTGATTTTAGGAATTGACTCTAAACTCTGTGCAGAACTCTTGTGTT
GGGATTGTATCTTGACATTCTGTTGTGTTATTTTCTTAACTGGAGTGTGTGCTGCCCTTCAGGTACAATTTTT
GTGTAATAAAAGCCAGTGCAATTAAGTTTATATAGACTACTTTCTATGCAAGACTGAGATATGGAATAGATAGGAA
GAGATATGTACTGCTGGGTACATGGACAGTAAGTGTGTTTTTCAGATGGAGTACCAGCACCGAAATGGGTTGAGG
GAGGATGGGTTGTATGTATGTTTCTGCCCACTAATTTGAGCAGCCATATTATGAATTAATCGTCACAGCCAAG
TAATAACCCAAGAATGGTATGAGTTTCATGTGTAATAGCTCAAATGGAATAAGCATGAATGCTGGAGTGGACCAT
TATCTCAAATATTCTATGTCACTTCTCATTTAAAGACTCTTGTATGAACCTATTAGAACTTTAGGCCAAATCA
AAAGTATTTGCGGCAAAATAAAGGCCTATTCTACTCTTATTTAAAGTGAAACACTGTATACTTGTCTCTCCAA

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FIGURE 989D

AGCGAAATTAAGTATTTATAATTTCAATTGCCTCGATAAGTTTCCAAGTCACTGAAATCTGCTGAAGGTTTTACT
GTATTGTTGCACAACCTTTAAGATAATTTTGTCTCAATGTCAACTTTTTTCACTGAATAAAAAATTTAACTGGGTC
AAGAAAACACCTCTTTGAAAATCCACTGTCTCTGTGTGTCTCGAGCTGTTCTTTAGAGCGCAATAAAGATGGCTG
ACGCAGTCTCCAACCCC

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FIGURE 990

AASTVFPLAWLSLILWGFSLGAGPRISQRWYFGDTCLHLTEPALLASRCTFSPGGGATCSSVRPNMATRSSRRES
RLPFLFTLVALLP GALCEVWTQRLHGG SAPLPQDRGFLVVQGDPRELRLWARGDARGASRADEKPLRRKRS AAL
QPEPIKVYQVSLNDSHNQMVVHWAGEKSNVIVALARDSLALARP KSSDVVVS YDYGKSFKKISDKLNFGLGNRS
EAVIAQFYHSPADNKRYIFADAYAQYLWITFDFCNTLQGF SIPFRAADLLLH SKASNLLGLFDRSHPNKQLWKSD
DFGQTWIMI QEHVKSFSW GIDPYDKPNTIYIERHEPSGYSTVFRSTDFQ SRENQEVILEEVRDFQLRDKYMFAT
KVVHLLGSEQSSVQLWVSFGRKPMRAAQFVTRHP INEYIADASEDQVFVCVSHSNRTNLYI SEAEGLKFSLS
LENVLYYSPGGAGSDTLVRYFANEPFADFHRVEGLQGVYIATLINGSMNEENMRSVITFDKGGTWEFLQAPFTG
YGEKINCELSQGCSLHLAQRLSOLLNLQLRRM PLSKESAPGLI IATGSVGKNLASKTNVYISSSAGARWREALP
GPHYITWGDHGGIITAI AQGMETNELKYSTNEGETWKT FIFSEKPVFVYGLLTEPGEKSTVFTIFGSNKENVHWS
LILQVNATDALGVPCTENDYKLWSPSDERGNECLLGHKTVFKRRTPHATCFNGEDFDRPVVSNCSCTREDYECD
FGFKMSEDL SLEVCVPDPEFSGKSYSPVPCPVGSTYRRTRGYRKISGDTCSGGDVEARLEGE LVP CPLAEENEF
ILYAVRKS IYRYDLASGATEQLPLTGLRAAVALDFDYEHNC LYWSDLALDVIQRLCLNGSTGQEV I INSGLETVE
ALAFEPLSQLLYVWDAGFKKIEVANPDGDFRLTIVNSSVLDRPRALVLVLPQEGVMFWTDWGD LKPGIYRSNMDGS
AAYHLVSEDEVKWPNGISVDDQWIYWTDAYLECIERITFSGQQRSVILDNLPHPYAIAVFKNEIYWD DWSQLSIFR
ASKYSGSQMEILANQLTGLMDMKIFYKGKNTGSNACVPRPCSL LCLPKANNRSRSCRCPEDVSSSVLP SGDLMCDC
POGYQLKNNTCVKEENTCLRNQYRCSNGNCINSIWCD FDNDCGDMSDERNCP TTI CDLDTQFRQESGTCIPLS
YKCDLEDDCGDN SDESHCEMHQCRSDEYNCS SGM CIRSSWVCDGDNDCRDWSDEANCTAIYHTCEASN FQCRNGH
CIPQRWACDGD TDCQDGSDEDPVNCEKKCNGFRCPNGTCIPSSKHCDGLRDCSDGSDEQHCEPLCTHFMDFVCKN
RQOCLFHSMVCDGIIQCRDGSDEDAAFAGCSQDPEFHKV CDEFGFQCQNGVCISLIWKCDGMDDCGDYSDEANCE
NPTEAPNCSRYFQFRCENGHCIPNRWKCDREND CGDWSDEKDCGDSHILPFSTPGPSTCLPNYYRCSSGTCVMDT
WVCDGYRDCADGSDEEACPLLANVTAASTPTQLGRCDRFEFECHQPKTCIPNWKRC DGHQDCQDGRDEANCP THS
TLTCSMREFQCEDGEACIVL SERCDGFLDCSDESDEKACSD ELTVYKVQNLQWTADFSGDVTLTWMRPKKMP SAS
CVYNVYYRVVGESIWKTLETHSNKNTNTVLKVLKPD TTYQVKVQVQCLSKAHNTNDFVTLRTPEGLPDAPRNQLS
LPREAEGVIVGHWA PPIH THGLIREYI VEYSRSGSKMWASQRAASN FTEIKNLLVNTLYTVRVA AVTSRGIGNWS
DSKSITTIGKVIPPPDIHIDSYGENYLSFTLTMESDIK VNGYVVNLFWAFDTHKQERRTLNFRGSILSHKVGNL
TAHTSYEISAWAKTDLGDSPLAFEHVMTRGVRPPAPSLKAKAINQTAVECTWTGPRNVVYGIFYATSFLDLYRNP
KSLTTS LHNKTIVIVSKDEQYLF LVRVVVYPYQGPSSDYVVVKMIPDSRLPPRHLHV VHTGKTSVVIKWE SPYDSPD
QDILLYAIAVKDLIRKTD RSYKVKS RNSTVEYTLNKLEPGGKYHIIVQLGNMSKDSSIKITTVSLSAPDALKIITE
NDHVLLFWKSLALKEKHFNESRGEIHMFD SAMNITAYLGNTD NFFKISNLKMGHNYTFTVQARCLFGNQICGE
PAILLYDELGSGADASATQAARSTDVA AVVVPILFLILLSLGVGFAILYTKHRR LQSSFTAFANSHYSSRLGSAI
FSSGDDLGEDDEDAPMITGFSDDVPMVIA

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FIGURE 991

CGGACGCGTGGGCGGCCGGCGCGGTGGGGCATGSCGGTTTCGGGGGTGCGGGGCGCACGGCGGCGCCGAGCG
TGCGGCCGGAGAAGCGGCGGTCTGAGCCCGAACTGGAGCCTGAGCCCGAGCCGGAGCCCCCTCCTCTGCACCT
CTCCTCTCAGCCACAGCACCGGCAGCGATTCTGGCGTCTCCGACAGCGAGGAGAGTGTGTTCTCAGGCCTGGAAG
ATTCCGGCAGTGACAGCAGTGAGGATGATGACGAAGGCGACGAGGAGGGAGAGGACGGAGCCCTTGATGACGAGG
GCCACAGTGGGATTAAAAAGACCACTGAGGAGCAGGTGCAGGCCAGCACTCCTTGCCCGAGGACAGAGATGGCGA
GCGCCCGGATTGGGGATGAGTATGCGGAGGACAGCTCTGATGAGGAGGACATCCGGAACACGGTGGGCAACGTGC
CCTTGAGTGGTACGATGACTTCCCCACGTGGGCTACGACCTGGATGGCAGGCGCATCTACAAGCCCTGCGGA
CCCCGGATGAGCTGGACCAGTTCTTGACAAGATGGACGATCCTGACTACTGGCGCACCGTGCAGGACCCGATGA
CAGGGCGGGACCTGAGACTGACGGATGAGCAGGTGGCCCTGGTGGCGGGCTGCAGAGTGGCCAGTTTGGGGATG
TGGGCTTCAACCCTATGAGCCGGCTGTGACTTCTTCAGCGGGGACGTCATGATCCACCCGGTGACCAACGCC
CGGCCGACAAGCGCAGCTTCATCCCCTCCCTGGTGGAGAAGGAGAAGGTCTCTCGCATGGTGCACGCCATCAAGA
TGGGCTGGATCCAGCCTCGCCGGCCCCGAGACCCACCCCAAGCTTCTATGACCTGTGGGCCCAGGAGACCCCA
ACGCCGTGCTCGGGCGCCACAAGATGCACGTACCTGCTCCCAAGCTGGCCCTGCCAGGCCACGCCAGTCTGTACA
ACCCACCCCTGAATACCTGCTCAGCGAGGAGGAGCGCTTGGCGTGGGAACAGCAGGAGCCAGGCGAGAGGAAGC
TGAGCTTTTGGCACGCAAGTTCCCGAGCCTGCGGGCGTGCCCTGCTACGACGCTTCATCCAGGAACGCTTCG
AGCGCTGCCTTGACCTGTACCTGTGCCCCACGCGACGCAAGATGAGGGTGAATGTAGACCTGAGGACCTCATCC
CCAAGCTGCCTCGGCCGAGGGACCTGCAGCCCTTCCCCACGTGCCAGGCCCTGGTCTACAGGGGCCACAGTGACC
TTGTCCGGTGCCTCAGTGTCTCTCTGGGGGCCAGTGGCTGGTTTCAGGCTCTGACGACGGCTCCCTGCGGCTCT
GGGAGGTGGCCACTGCCCGCTGTGTGAGGACTGTTCCCGTGGGGGGCGTGGTGAAGAGTGTGGCTGGAACCCCA
GCCCCGCTGTCTGCCTGGTGGCTGCAGCCGTGGAGGACTCGGTGCTGCTGCTGAACCCAGCTCTGGGGGACCCGC
TGGTGGCGGGCAGCACAGATCAGCTGTTGAGCGCCTTCGTCCCGCCTGAGGAGCCCCCTTGACCCGGCCCCGCT
GGCTGGAGGCCTCAGAGGAGGAGCGCCAAGTGGGCCTGCGGCTGCGCATCTGCCACGGGAAGCCAGTGACGCAGG
TGACCTGGCACGGGCGTGGGACTACCTGGCCGTGGTGTGTCGCCACCCAAAGGCCACACCCAGGTGCTGATTACC
AGCTGAGCCGTCGCCGACGCCAGAGTCCGTTCCGCCGACGCCAGGACAGGTGCAGCGAGTGGCCTTCCACCCTG
CCCGCCCTTCTGTGGTGGTGGTCCCAGCGCAGCGTCCGCCCTTACCACCTGCTGCGCCAGGAGCTCACCAAGA
AGCTGATGCCAACTGCAAGTGGGTGTCCAGCCTGGCGGTGCACCCTGCAGGTGACAACGTCTCTGTGGGAGCT
ACGATAGCAAGCTGGTGTGGTTTGACCTGGATCTTTCCACCAAGCCATACAGGATGCTGAGACACCACAAGAAGG
CTCTGCGGGCTGTGGCCTTCCACCCGCGGTACCCACTCTTTGCGTCAAGGTGCTGAGGACGCGCAGTGTCTCT
GCCATGGCATGGTGTACAATGACCTTCTGCAGAACCCCTTGCTGGTGGCCGTCAAGGTGCTGAAGGGACACGTGC
TGACCCGAGATCTGGGAGTGTGGACGTCTCTTCCACCCACCCAGCCGTGGGTCTTCTCCTCGGGGGCAGACG
GGACTGTCCGCCTTTCACCTTAGCTGTTCTGCCTGCCTGGGGCTGGGGTGGTCTGTGCTGAAGTCAACAGAGCCTT
TACCCTGAAAAAAAAAAAAA

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FIGURE 992

MAGSRGAGRTAAPSVRPEKRRSEPELEPEPEPEPPLLCTSPLSHSTGSDSGVSDSEESVFSGLSDSGSDSSEDD
EGDEEGEDGALDDEGHSGIKKTTEEQVQASTPCPRTEMASARIGDEYAEDSSDEEDIRNTVGNVPLEWYDDFFHV
GYDLDGRIYKPLRTRDELQFLDKMDDPDYWRTVQDPMTGRDLRLTDEQVALVRRLQSGQFGDVGFNPYEPAVD
FFSGDVMIHVPTNRPADKRSFIPSLVEKEKVS RMVHAIKMGWIQPRRPRDPTPSFYDLWAQEDPNAVLGRHKMHV
PAPKLALPGHAESYNPPPEYLLSEEERLAWEQQEPGERKLSFLPRKFPSLRAVPAYGRFIQERFERCLDLYLCPR
QRKMRVNVDPEDLIPKLPRPRDLQPFPTCQALVYRGHSDLVRCLSVSPGGQWLVS GSDGSLRLWEVATARCVRT
VPVGGVVKSAWNPSPAVCLVAAVEDSVLLNLPALGDRLVAGSTDQLLSAFVPPEEPPLQPARWLEASEEERQV
GLRLRICHGKPVQTQVTHGRGDYLA VVLATQGHTQVLIHQLSRRRSQSPFRRSHGQVQRVAFHPARPFLLVASQR
SVRLYHLLRQELTKKLM PNCKWVSSLAVHPAGDNVICGSYDSKLVWFDLSTKPYRMLRHHKKALRAVAFHPRY
PLFASGSDDGSVIVCHGMVYNDLLQNPLLVPVKVLKGHVLRDLGVLDVIFHPTQPVWFSSGADGTVRLFT

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FIGURE 993A

CACTAGAAATGTGAAGGATCTTCGCGGTTCTGGGTGCCAGAAAGCGGCGACGCGGCGGATGACAACATTAGTGC
CGCGACCGCTCCTGGCCAGGCGGCGGCTGTAGTGTAGCTTTGGACGCCGAGTAGCCGTGCCGGTAGCAAGC
CGACTGAGGGAAGGTGGGGTCCGCCCGGGCTGGTGGACCTCGGGGCCGAAAGTTCCCGCCCCGCTCGGGGGCTG
AGCCGCGAGTGCCTCCGCGGCCGCTGGGCAGCGCCCTTCGTCCAGGCTCGCGCCCCAGTGC CGCGCCGACGACAGC
GGCCGAGAGAAGTTGGGGTCTGACTAGACGCTTACGGGGCTCGGACCCCGGCGCGCGGCGACCTCGGAGGAAC
CGGCTCCTTGCGTCCCGCTCCCTGGGAGCTCCGCACGGGATTTGCAGATTTAÇAGAATGGCTGCACATTAATGG
AAAGAGAAGCATAAACCTATCTTCTTTTATTATGGAGGGAGGTTTGGCAGATGGAGAACCCTGATCGAAGTTCGCT
TCTTGGTGATAGCAAAGATGTCTTGGGCCATCAACTGTTGTAGCAAACAGTGACGAATCTCAGCTTCTGACACC
AGGAAAGATGAGTCAGCGCCAAGGAAAAGAAGCTTATCCAACGCCAACCAAGATTTGCATCAGCCATCTCTTAG
TCCAGCAAGTCTCATAGCCAGGGTTTTGAAAGAGGGAAGGAAGATATTTCTCAAATAAAGATGAATCTTCACT
TTCTATGTCAAAGAGCAAGTCTGAATCTAACTTTATAATGGCTCAGAGAAGGACAGTTCAACTTCAAGCAAAC
CACAAAAAAGAATCTCTTAAGGTACAAAAAGAAAATTACCGAGAAGAAAAGAAAAGAGCCACAAAGGAGCTGCT
CAGTACAATCACAGATCCTTCTGTATTGTATTGGCTGATTGGTTAAAGATTCGTGGTACTCTAAAGAGCTGGAC
CAAGTTATGGTGTGTGTTGAAACCTGGGGTGTACTGATCTATAAAACCCAAAAAATGGTCAGTGGGTAGGAAC
AGTTCTTCTGAATGCCTGTGAAATCATTGAACGTCCATCAAAAAAGGATGGCTTTTGTTTCAAACCTTTTCCATCC
TTTGGAGCAATCTATTTGGGCAGTGAAGGGTCCAAAAGGTGAAGCGGTTGGATCCATTACTCAACCTTACCTAG
CAGTTATTTGATCATCCGAGTACTTCAGAGTCAGATGGAAGGTGCTGGATGGATGCTTTGGAGTTGGCTTTGAA
ATGTTCTAGTCTTCTTAAACGTACAATGATCAGAGAAGGAAAGGAACATGACCTGAGCGTTTCATCAGATAGCAC
ACATGTGACTTTCTATGGCTTACTACGTGCTAACAATCTCCACAGTGGTGATAACTTCCAGTTAAATGATAGTGA
AATTGAACGACAACATTTTAAGGACCAAGATATGTATTCTGATAAATCTGATAAAGAAAATGATCAAGAACATGA
TGAGTCTGATAATGAGGTGATGGGAAAAGTGAAGAAAGTGACACAGATACATCAGAAAGACAAGATGACTCATA
TATCGAACCTGAGCCTGTTGAGCCTTTAAAGGAGACTACCTACACTGAACAGAGCCATGAAGAACTTGGAGAGGC
AGGTGAGGCTTCTCAAACAGAACTGTATCTGAAGAAAACAAAAGCCTTATCTGGACACTATTGAAACAAGTCCG
TCCTGGCATGGACCTATCCAAGGTGGTTCTGCCTACATTTATTTTGAACCCCGTTCTTTCTGGATAAACTTTC
AGATTACTACTATCATGCAGATTTCTATCTGAGGCAGCTCTGAAGAAAATCCTTATTTCCGTTTGAAGAAAGT
AGTGAAATGGTATTTGTGAGGATTTCTATAAAAGCCAAAGGGACTGAAGAAACCTTATAATCTTACTTGGCGA
GACTTTCCGTTGTTTATGATTTCATCCAGAACAAACAGCAAACTTTTTATATTGCTGAACAGGTGTCCCATCA
TCCACCAATATCTGCCCTTTTATGTTAGTAATCGAAAAGATGGATTTTGCCCTAGCGGTAGTATCCTGGCTAAGTC
TAAGTTTTATGGAACCTCATTATCTGCAATATTAGAGGGAGAAGCACGGTTAACTTTCTTGAATAGAGGTGAAGA
TTATGTAATGACAATGCCATACGCTCATTGTAAAGGAATTCTTTATGGTACAATGACACTGGAGCTTGGTGAAC
AGTCAATATTACATGTCAAAAACTGGATACAGTGAATACTTGAATTTAACTAAAGCCATTCTAGGGAGTAG
TGACTGTGTTAATCAAATATCAGGGAACTTAACTGGGAAAAGAGTCTTAGCTACTTTGGAAGGTCAATTGGGA
TAGTGAAGTTTTTATTACTGATAAAAAGACTGATAATTCAGAGGTTTTCTGGAATCCAACACCTGACATTAAGCA
ATGGAGATTAAATAAGGCACACTGTAAAATTTGAAGAACAGGGAGATTTTGAATCAGAGAACTCTGGCAACGGGT
AACTCGAGCCATAAATGCCAAAGACCAAACCTGAAGCTACCCAAGAGAAGTATGTTTTGGAAGAAGCTCAAAGACA
AGCTGCCAGGGATCGGAAAACAAAAAATGAAGAGTGGTCTTGCAAATTATTTGAACTTGATCCACTCACAGGAGA
ATGGCATTACAAGTTTGCAGATACCCGACCATGGGACCCACTTAATGATATGATACAGTTTGA AAAAGATGGTGT
TATTCAGACCAAAGTGAAACATCGTACTCCAATGGTTAGCGTCCCCAAAATGAAACATAAGCCAACAGGCAACA
GAAGAAAGTAGCAAAGGCTATTCTCCCGAACCTGACATTCAAGACTCCTCTGGAAGTGAAGCTCAATCAGT
AAAACCAAGTACAAGAAGAAAGAAAGGAATAGAACTGGGAGACATTCAGAGTTCCATCGAATCTATAAAACAAAC
ACAGGAAGAAATTTAAAGAAATATTATGGCTCTTCGAAATCATTTAGTTTCAAGCACACCGGCCACGGATTATTT
TCTGCAACAAAAAGACTACTTCATCATTTTCTCTGATTTTGCTTCAAGTCATAATAAACTTCATGTTCAAGTA
GAAGTTCTCTACCATTTGAATCAGTGAAC TAGAAGATCTGATTTGGCCTGGGACCAGTGTTCAGTTGGTTGGT
CTTTATTAAAAATCACAATATTCGAAAACAAAAAACCTAGGAGATAAATGTAGAGGTATTGACTTTTCGTATC
TTTTATCTTCACACTGAAACAAGAGCTATCCTATTTGATTATTAAGTGAGCTATGTGTTAAGTGCCAGGACATT
TCTAGCTTTTGTGAGAATGTGTCTACATATGAGTATAATAAACCACATGTATACAAATTGTCTCTTATGTACT
CCTACCTGACAGTAGTCTTTGTATTCTATAGTATGTTCTGAGATATAATGTTAACATTGTTTATAACAAAAAATG
CTATCAATCTTATAAATATATGTAATCTATTTCTTCATAAAACAGGCACAAAAGTTTTATCAGTAAGGAATTAC

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FIGURE 993B

AGATTGAGAAATGATGGAATAATAGACATAATTAATTCAATACACTACTGTTAAAATCATTGCAAAGCACTCAG
CTCAATTATCTTCTTAGAAAGAAAGAAAAAGTATGAATGGTCAAAATGAATACATCGAGAGAGATAAATGGCAA
TTGCTTTTTTAAAAGTTTACATAAGTTTTTTTAAACCCCTAGAATTTAATATTTGTAGATGCAGGTAAATATATA
TACTTACGTGTATATCAGTATAAAAACACTGGTGTGCAATTAATTGGATTGATTATAATACCACCTTAAGCACTT
GCTGAAAAAGTGTGGTCAAAATTGATTGCTGTCCTTTTGTCTTATTTTGTCTTTCTTAAGTCAGCTGGTTCAT
AACATAGGCCAAATCTAGAGATGTTTATAGAGCATTGAAGTGTGATAATTTATGTTTTTCATTATGAAAAC
TTATTTTAGCTTTAGACTCCAGTGTGTTTCACTGAATAAGTAGAATATAAAAAATATAACCAGTATTTTACTTCA
AAAGCCAAAAAGAGGCAATAAGAAAAGACACTTTGTGGTGGCCTTTATGTGTGCATTAAAAATGGTTTCTGTAAA
ACGTGTAATAAGTTGAGTATCTACGAAGAGTATCAAGTTCTGAAGTTTAAATTTTTTATTATCCTCCTCTCTCTCT
TAGTAACCTCTTTCTGTGGCAAACCAATCTTTAAGATTCTTATTGTTTCAAGGCTAAGGCAATTTTTTTGT
TGTTTCTTCAGTTTAAATATTTTGATTTTGTGTTTTTACGTAAATATTTATATCTTGAAGCAATTTTTTGCAA
GGTAGTTTCACTTTAGGAATATGTTGTTCTAAAATATGCTTAGAATCTTGAAGCATAGATTTGAAATGTTTTT
TTAATGAAAAATGAAGGTCAGAGAGAATAATTGCCCTGACCACATTTGCCCTTCAGTAGGAGGAGGCTGTGAAATA
GTAAATTTATAATCGTTTATGCCATGATAAATACAAGATTGGTAAATAAATACATTGATTGGTAAATTATGAGAA
TCAAAATGATAAAAAGAGCCTGCTTTTTTCCCTAACCAATATAGCTATCTTAAGTATCCTTAGGTTTCTGTGAAG
AACCATTTCCTCATGTTTTCTTGGCAAATAATGCTGTATTCCATATGTACATGTGAATGATGTTTTAAATTGAT
AAAAGCTTAAATAAGATCTACCTATACCCAGTATTTTCATGATATTAGAACAATGGGTTTTTGGTTATATTTTA
TATTTGTCAATATAATTTTTGTATTACATTCTGTTACACTCTGCCTATTTCATTGATATATGATATTCTGTAAAT
ATTGTACAATTGATCTTTTTTATGGTTTTAAATTAGTTAATTACATACAAATTGATTGGCTTATCACAAAAATCA
TTTCATCAGTAAACCTTGTTAACATTTTGTACTGGTGACCCACCTCTTAGGACTTTGGTCTTATCCACGTGTATG
TTGTTTTTCAATTTGGTCCAAATAATATTTTATTGTATGGGTATCTTCTAAGACTAAATAGGTAGTTGTGTTCTTT
ATTTTTAAATTTCTTTTTAGAGCAAATGTTATGGGTCTTTACCCAAAGAGTCAAAAATCTATTCTTAAGAAAGA
GCAGAGTTATTTCATGACTGTTCTTTATACACTAAAAGCATGCATCTAATCTAATAGTCTCTTATTATGCTTTTA
GTTGTATGAGTCTCTTTCTATGAAGTGAACACAAAACCTCAGGAATTGGTGGCTTAATTTTAGATCAGTGTGTTA
CTAGGCTTAGTTATATGAATCTTTATAACACATAATTACTAATTTGTAGCCATATATGTAATTGACTTTGAATG
TTATTTACCTGAAATTAATCTTCTTTCACACATGGACCGTAAACGGTTCCAGTTGTCTGAGAGCCTCATGAGGG
TTTCTAGGATTTTATGACCTTATGACCAGTTTTTTTCATTTACCAAGATTTTATTTTCTACATGAAAATTTAATT
GAGTAATAATTATTCACATGTGCATTTTCTTTTATGCTGTTAAATGTACTATGCCATCATCCACCATTTAGTAAA
ATGTAGCTGGCCCAGGACATGTAAAAAACAACAACAATAAATAGGGCATGTGAATGTTAAGTTA
CAGCAATAGATATTTTATTTGATTTTCATGTTAGTACTTTTTTGTGTTTATATCACTTATAAAGGTACAGTGTACT
CTTTGTACAGCTCAGTTGGTAACCGCATTCCATTGAAAAGTTGGCCTTGTAATAACAACCTCATTAAATATT
CATGCTTTTTGTGCTTTAAGAAAATATTTTTTGTCAATTTTTGTGTTACAGAACTATAATGTGATTCAAGGTGTT
TATAGGCTTGTCTATAAAGGGTCATTTCTGTGTTTACTTTCTTTTATATAGCTATAGTATATTTAAACAATAA
TACTATCTTTTATAGGGGTTTGTCTATTTACCTATTTCTTACTCAGACATTGATGTAGACTTGTGAGATTATCT
GAGTATTGTTAACAGTGCCTTTTCGATGGAATCACACTTTTGGCTGTACCTTGTGCCATATACACACAAAATT
TTGTGGAAGGCAGTTTTAATCTTCTGAAGAATATCTGTCAAAATTTAAGAAAACAAATGTATAAAATCCATTTT
TTCCAGTGTTTAGCATTCTAGTAAGCAGTGAGGTTGTTTGACATACAGTGTATGATGGCATTATTGATAAGCCAT
ACATGAGACTGCAGATTATATTGAATCATATTAATGTACAGAAATAAATATTAGATTTATATCAAATTTTCCA
ATTTGAACAGTGGGGAAAAATCCCACAGAAATCAGTAAGTTTACATTTCATTTCTATCTTATTGACTAAGTGG
AAAGAGATTCTTTAAATGTATAACCTGCCATTATGTAATTTGGTTTCAATTTTATTTACCTGTTGTGTGAGTTT
AGTATATTTAATTTACTTTTTGTTACTCTTTACATACTGTTTATTTTTGTAGTTTTTAATTGAAGATGGACTGT
TGAAATTGTATAGGACCAGTGTCTTATTAATATGATTAAATATATTTAGAAGAGCCAGTGAAACCCATGACAAA
TGAATGTGAATATTCTTTCTAAAAATTTAGAAAATGTTATCTTTTTGCATTTATTATGTAAAACCTGTTTACAGT
ATCAAAATTTTTCACTTAAAGAAAAAAATGCCATGAACATTTGAAGTGTGATGAGCCACAGAACCTCAGTTGAAA
TTTTTTTCACTTTTTAGCATGCTAAATATACATCTGAGTTTAAATGTTCTGTTTAAATGGCCATTCTAAATTCAA
GCACTACCACTGGTCACTTTTGTGTGATAGAATAAAAAATATGTTACCTGCAGTGTAAGTACAGCACACTGTCAAA
TTCTTTTCTTAAGGTGCACAGTAAATGTACAGATAGTTATAGGCCACTGTTTTGTAAATGTAGTACATTCTAAT
CTATTATTCCTAACCTATTATAACTGTTTGCAGAAAGAAAAGAATTTTTCTAATAATCTGTAAAATTATGCTAAC

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FIGURE 993C

TTCTACAAGTAGGCTTCTAAATAAAATTTTAAAAAGAGC

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FIGURE 994

MEGGLADGEPDRISLLGDSKDVLPSTVVANSDESQLLTPGKMSQRQGKEAYPTPTKDLHQPSLSPASPHSQGFE
RGKEDISQNKDESSLMSKSKSESKLYNGSEKDSSTSSKLTKKESLKVQKKNYREEKKRATKELLSTITDPSVIV
MADWLKIRGTLKSWTKLWCVLKPGVLLIYKTQKNGQWVGTVLLNACEIIERPSKKDGFCKLHFPLEQSIWAVKG
PKGEAVGSITQPLPSSYLIIRATSESDGRCWMDALELALKCSSLLKRTMIREGKEHDLVSSDSTHVTFYGLLRA
NNLHSGDNFQLNDSEIERQHFKDQDMYSDKSDKENDQEHDESNEVMGKSEESD TDTSERQDDSYIEPEPVEPLK
ETTYTEQSHEELGEAGEASQTETVSEENKSLIWTLLKQVRPGMDLSKVVLPTFILEPRSFCLKLSDYYYHADFLS
EAALEENPYFRLKKVVKWYLSGFYKKPKGLKKPYNPILGETFRCLWIHPRTNSKTFYIAEQVSHHPPISAFYVSN
RKDGFCLSGSILAKSKFYGNLSAILEGEARLTFLNRGEDIYMTMPYAHCKGILYGTMTLELGGTVNITCQKTGY
SAILEFKLKPFLGSSDCVNQISGKLKLGKEVLATLEGHWDSEVFI TDKKTDNSEVFWNPTPDIKQWRLIRHTVKF
EEQGDFFESEKLWQVRTRAINAKDQTEATQEKYVLEEAQRQAARDRKTNEEWSCKLFELDPLTGEWHYKFADTRP
WDPLNDMIQFEKDGVIQTKVKHRTPMVSVPMKHKPTRQKKVAKGYSSPEPDIQDSSGSEAQSVKPSTRRKGI
ELGDIQSSIESIKQTQEEIKRNIMALRNHLVSSTPATDYFLOQKDYFIIFLLILLQVIINFMEK

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FIGURE 995

TTAAGCACTTGTTTTGGGTACAAGGCATTTCTGACATTTTATAAACCTACATTTAAGGGGAATTTTTAAAGGAAA
TGTTTTTCTTTTTTTTTTTGTTTTTCGAGGGGGCAAGGAGGGACAGAAAAGTAACCTCTTCTTAAGTGGAATATT
CTAATAAGCTACCTTTTGTAAGTGCCATGTTTATTATCTAATCATTCCAAGTTTTGCATTGATGTCTGACTGCCA
CTCCTTTCTTTCAAGGACAGTGTTTTTTGTAGTAAAATCACTGGTTTATACAAAGCTTTATTTAGGGGGTAAAGT
TAAGCTGCTAAAACCCCATGTTGGCTGCTGCTGTTGAGATACTGTGCTTTGGGAGTAAAAAAGAAAGTTATTTT
TTTGTCTTAAAGAATTTTAAAAAATTAGTCATGAGACTTATTCATCTTCCAGGGAACATACTGATTGGTCTTA
AAAGACTAGACAGTTAAGTAAAAGGTGGCTGGAACATCTATTTTCTACAAAACCTGGAAAAATGAACCTGGTTCT
AGAAGAATGTACACCAAATAAAACATGTGAAGCAGTATTGATTCTTT

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FIGURE 996

LSTCFGYKAFLTFYKPTFKGNF

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FIGURE 997

GCACGAGCATAGACTTTTAAACTGGTACGGTTCTTAGAGATGGTCCCTTGGCCTTCTGTGTTGTTGKTGTTTTTT
TCTTTTTCTTCTTCTCCTTCTCCTTCTTCTTCTTCTCCTTCTTCTTCTTTTTTTTTTTCAGAGTCTTGCTCTG
TCACCAAGACTGGAGTGAAGTGATGTGATCTCGGCTTACTGCAACCTGGGAGGCAGAGGTGTCAGTGAGTTCGAGA
TGGTGCCATTGCTCTCGTTTGGGCAACAAGAGTGAAACTCTTGCTCTCAAAAAAAAAAAAAAAAAATGAGGTTTAAGA
CAGTTTTGTCACTTACTGGTGGGATCTGGTCACACAAGATAGCATTAAACGTGACATGGCACATAAAATTGGTTAA
AAAAATTTGTTTTTTAATTACGTAATGTAAAGCCCAACAACACTTTATGCAAGATTGGAATGTATCTTCAAAT
TCAGATTTAATAAACATGTAAAGATCCTCTGTATATAAAAGTTGTATTTAATCCCTTGTGCCCAAGAATGCTAT
AAAAGATCCCAAGAATGTTATCTATGAAAAGATAGCAATAGGGAATGGTGAACAAATAATTTAATTTGCCAATTC
TAAAAAACATGGACTTAAACCCCATGAAACTTGGTTCCATAGTTTTAACTGTTTTATGGTTCCAATACAAAACC
AGAGTGGTTTACATTCCACAATXACCAAATTTGCATCCAATXTTGGGGTAATTTXGGTATTGCCATGGGATAC
TATTCATTTTT

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FIGURE 998

MVLGLLLLLXFFSFSSSPSPSSLLLLSSFFFQSLALSPRLE

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FIGURE 999A

CTGTGTGTTTCAGCCATTACTTTGCTCGGCGCTGCTCCCAGGCATCTCCGACCCTCGGTGCTGTGGGGAGCCCCAC
ACTTGGGCTCCTCGCCTCTCGCCCTCGCTCCCCGTCCTCCTCCCCTCTCTCCGCCCCCTCCCCCTTTTCTTTCT
CCTCTCTTTCTTCCCCTCTCTCCCTTCTTTTCGGCCGCGCTCTCCCCGCGCCCTCTCGGGGCGGAGGGAAGCCG
TGAAGGGGAGGGAGGGCTCGGTGTCAATTTTTTTTTTGTGTGGCTGCGGCCGTAGCCTGTGGCGGGAAGCGGGG
AGACCCCGGCGCAGCAGAACCATGGATGGCCCCAGCGGGGCCATGGACTCCGCAAAAAGCGGCGGTTCGCGTTCG
CAGCGAGACCGGGAGAGGCGCTCCCGGGGCGGGCTGGGGGCGCGCGCGCGCGGGCGGGGCTGGCCGGACC
CGGGCGCTCTCACTCGCCTCGTCTCGGGCTCCGACAAGGAAGACAATGGGAAGCCCCCTCTCCGCCCCGTCC
CGGCCCAGACCCCCGCGGAGGAAGCGGAGAGAGTCCACCTCGGCAGAAGAGGACATCATTGATGGATTGTCCATG
ACCAGCTTTGTCACTTTTGAAGCGCTGGAGAAAGATGTAGCACTTAAGCCTCAGGAACGTGTGGAGAAACGCCAG
ACGCCCCGTGACCAAGAAGAAACGAGAAGCACTTACCAATGGCTGTCTTTTCAATCAAAGAAGAGCAGACTCAGC
CACCCACACCACTACAGCTCAGATCGAGAAAATGACCGCAATCTCTGCCAGCACCTTGGGAAGAGAAAAGAAATG
CCGAAGGCACTCAGACAGCTCAAGCCAGGACAGAACAGCTGCAGGGACAGTGACAGTGAAGTGCCAGTGGAGAA
TCCAAGGGCTTCCACCGGAGCAGCTCTCGGAAAGGCTCAGTGATAGTTCAGCTCCTTCCAGCTTGGGAACAGGC
TACTTCTGTGACAGTGACAGTGACCAGGAAGAGAAGGCATCAGATGCCAGCTCTGAAAACTCTCAACACTGTT
ATTGTAAACAAAGATCCGGAGTTAGGTGTTGGCAGCTACCAGAACATGACAGCCAGGATGCAGGGCCGATTGTC
CCCAAGATATCGGGTCTAGAGAGAAGCCAGGAGAAGAGCCAGGACTGTTGCAAAGAGCCAATCTTTGAGCCTGTG
GTGCTTAAAGACCCCTGCCCTCAGGTGCGACAGCCAATACCCAGCCGAGACGGAGCCCCAACTCCGAGCTCCT
TCTCCGGACCTGACTTGGTGCAGCGCACAGAGGCCCCACCTCAACCCCACTCTGAGTACACAGCCACCACAG
GGCCCTCCTGAGGCCCAGCTCCAGCCTGCCCGCAGCCTCAGGTGCAGAGGCCACCCAGGCCACAGTCCCCACC
CAGCTGCTCCATCAGAACCTCCACCTGTGCAGGCCCCACCCCTCTGCTCAGAGCCTCTCCAGCCATTGTACAGC
TACAACAGCAGTAGCTTAAGCCTCAACAGTTTAAGCAGCAGCAGAAGCAGCACTCCAGCGAAGACTCAGCCCGCC
CCACCTCACATCTCCACCACCCCTCTGCCTCCCGTTCCTCTCTCCCTGCCCAACCACAGCCCTCTGCACAGC
TTCACACCCACCTCCAGCCCCCGCACACTCACATCACCCCAATATGTTTGGCCCTCCCACTGCTCTGCCTCCT
CCACCACCACTGACATCAGGAAGTCTGCAGGTGGCCGACACCCGCGGGAGCACTTACTCAGAGCAAGACATC
TTGCGACAGGAAGTGAACACTCGTTTTTTGGCCTCTCAGAGTGTGACCGCGGGGCTTCCCTGGGCCCCCTCCGCC
TACCTGCGGACCGAGTTCCATCAGCACCAGCACCAGCACCAGCACACCCACCAGCACAGCACCAGCACACCTTC
ACGCCGTTCCCCACGCCATCCACCCACCGCATCATGCCGACGCCAGCACCTCCCATGTTTGACAAAATACCCT
ACAAAAGTTGACCAATTCTACCGGCACAGTCTCTTCCATTCTATCCTCCTGCAGTGTGCGGCATCCCCCTATG
ATCCACCCCACTGGCCCTTTTGGTTCACTACAAGGAGCATTTCAGCCGAAGACATCCAACCTATCGATGTGCT
GCTCGGCCTGGGACAGTCCCACACACTTTACTCCAAAAGGACCCGAGGTTGACAGATCCTTTTACAGCCTATGTTA
AGGAAACCAGGGAAGTGGTGTGCTATGCATGTTACATCGCCTGGCAGATTTACCACCACCAACAGAAAGTCAAG
AAACAGATGAGTCAAGCCACATAAGCTGGACTTTGGACTGAAACCTGAGTTCTTCTGAGCCGCCCTCCAGGCCCC
AGTCTTTTGGAGCCATCCACCACCCCATGACCTGGCAGGCGCTTCAACTTTGTTCTCTGCGCTGGTGTGCA
CACCCAACTGGGACCCCTTTTGGGCCACCTCCTCATCAGCAACTTCTCAACCTGCTGCCACCTAGAGCCT
TTTAAATCGGCGCTTACATTACAGGCCTAGCAGAGTTGGTGGCAATGCCTTCGGGGGACTTGGAAATCCTTCC
GTTACACCCAACTCAATGTTTCGGCCACAAGGATGGCCCCAGTGTGCAGAACTTTAGCAACCCTCACGAACCCTGG
AACCGGCTGCACCGAACGCCTCCGTCGTTCCCGACCCCTCCGCCCTGGCTGAAGCCAGGGGAGCTGGAGCGCAGC
GCGTCCGCTGCAGCTCATGACAGAGATAGAGATGTAGATAAACGAGACTCATCTGTTAGTAAAGATGACAAAGAA
AGGGAAAGCGTCGAGAAGAGACACTCCAGCCACCCTTACCAGCACCTGTCTCCCGGTGAATGCCCTGGGACAT
ACCCGCAGCTCCACTGAACAGATCCGGGCTCATCTGAACACTGAGGCTCGGGAGAAGGACAAACCCAAAGAGAGG
GAGAGAGACCACTCGGAATCCCGCAAGGACCTGGCCGCGGACGAGCACAAGGCGAAAGAGGGCCACCTGCCCGAG
AAGGACGGGCACGGCCACGAGGGGCGCGCGCGGGCGAAGAGGCCAAGCAGCTGGCCCCGGGTGCCGTCTCCCTAC
GTGCGGACCCCGGTGGTGGAGAGTGCCAGGCCAACAGCACCTCGAGCCGGGAGGCCGAGCCGCGCAAGGGTGAG
CCGGCTACGAGAACCCCAAGAAGAGCTCCGAGGTCAAGGTGAAGGAGGAGCGGAAGGAAGACCATGACCTGCCT
CCAGAGGCCCCGACAGCCACCGGGCTCGGAGCCGCGCCTCCCACTCCTCGTCCAGCGTGCACCCGGGGCCC
CTGGCTCGATGCCATGACGTTGGGGGTGACGGGCATTACCCCATGAACAGCATCAGCAGCCTGGACAGGACT
CGCATGATGACCCCTTATGGGCATCAGCCCCCTCCCGGGCGGAGAGCGCTTCCCGTACCCTTCTTCCACTGG
GACCCCATCCGGGACCCCTTGAGGGATCCTTACCAGAACTTGACATTACCCGGAGAGACCCGCTGGGCAGGGAC

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FIGURE 999B

TTCCTGCTAAGGAACGACCCGCTCCACCGGCTCTCGACTCCCCGGCTGTACGAAGCCGACCGCTCCTTCAGGGAC
CGGGAGCCTCAGACTACAGCCACCACCACCACCACCACCACCACCACCCTGTCTGTGGACCCTCGGCGGGAGCAC
GAGCGGGGAGGCCACCTGGACGAGCGGGAGCGCTTGACATGCTCAGAGAAGACTACGAGCACACGCGGCTCCAC
TCCGTGCACCCCGCCTCCCTCGACGGACACCTCCCCACCCAGCCTCATCACCCCGGACTCCCCAGCATGCAC
TATCCCCGCATCAGCCCCACCGCGGGCAACCAGAACGGACTCCTCAACAAGACCCCTCCGACAGCAGCGCTGAGC
GCACCTCCCCGCTCATCTCCACGCTGGGGGGCGCCCGGTCTCTCCAGAAGGACGACTCCTCTGTCCGCAGAG
ATAAGGGAGAGGCCCCCTTCCCACACGCTGAAGGATATCGAGGCCGATTAAGCCGAGAACAGGAGCAAGAACGAG
GAAGAAGAAACCTTAGGCAGACACCAGGCCAGGCTTGAGAGACAGAACTCCTGCATGGCTCACACAGACTGGGGG
GGAAAGCCCCACCCCTTCCCCTTGTAATAATGTATAGACTCAGTGCACATTTTGAAATGTTTGTATATTATAT
GTTGAGATTTTTCAGATCTTTTAGCCAGTCATATGTTCTCACGCTCTCTACTTTTGTCTCTCGTATAAACTT
TTTGATTGAACCAAAACAGTGAAGATGACAACACACCAATTGGATGATAATTGTAGCGGGGGCGGTGGGGGG
GAGAAGTCCACGCCATCCATCATGCAAAATCTTTCAGATGAGGTGGGAAGGCCGTGTACATAGTTATGTAATAA
GAGATTGCTTCATGAGCTAATGGTTCATATATGCAAAAGGGTAAGATGAAAGCTTACTTTGTACAAATGTAAAT
AGATAAAGTAACATAATACATTAATACTTCTTAAATGTGCTATTGCAAACTTACTTAATATCAGTGAACACAG
TCGGCTAAAGCTGTGTTCCCATATATTGTTATAGACAGCTAAACCCTTCAACTATGCAATGAATGTTCGGGCTTT
TCACAAAAGCCCGCTAACTCAAAGGAGCCTTTTCAAATCCATTTACAGCATACTTAAGGTCATATTTCCCTGA
ACAAGCGCTTACGTGATATGACTCTGTTTTCTTGCTTGTTTTTTTTCAAACGGAGAAACATCCTGTTTGTCAA
TTGGACCCAGGCTGGAACCTTAGCATCTGAAGTTGCCGCTTGTGGGCTCTGGGGGAAAGTGTAGCCCGGAGAGG
TAACTGAGGACATGAGCAACCAGTGCCAGGGAGGGTGGGATTGCCAGATGCCAAAATCAGGGGACGGGTGGTGG
TGTCTGTGACACACACAGGTCGCCAGTGACTTCACACACACCTCATGTGAGAACCATGCCTTTTTTAGTGTGT
CCTATTTTCATACCTGTACACACTTCCTCGTTTTGTAATGAGATTTACTTACACCCAAACAGATCCTGAAAGAAAG
CTTCAAGTTTTCTCAGATGATGGATATGTTTTCACTGTATTCAATAACTGACGGATGTAAGGTGCACGTTTCCTG
ATGTGACGCACTGTATTCCAGCTGGTGATCAAGTCTGGGAACAGCCGTAACAGGTCAACCTTGTGGAGCCATCGC
GAGTTAGAGGGTGAAAGATGGCAGAAAAAAAGTCTTGTGTGTGAGTGTGTTTTTGTAGTTTGCATCAATCTTAA
TGTCTCTTCATAATACTTTTTATAATACATTAAGCCTCTTGTCTACATATTTGGAGAGAATATGACTTTACTAGCA
GAGAAATACAATATATCTTGTCTACTGGACTGTAAAATATATGTATGAAATAAAATTAGTTCCATTTGGTCTTCT
AGTATATTAAAGTGCTATCTGACGTTGTTATCCTGTTTTTGCAAAAAAAAAAAAAAAAAAAGTTAACTACAGAC
CATTGTTTCTAATAAGCAGAGAGATCTATTTTAGTAGTAACTGAAGGTTTAGTTGTGAGCTTCAGATTTTGTGA
ACTCCAGATGTTGTGCGGTGTTTTTTTTTTTTTAAAGACAACAACTAAAAAATGCAAGGAATATGTACACTGG
AACTGTAGTGGTAGCTTTCAGTATTGTAAAGAGATTGTTCTATACGGACCTTTTGTGCTTTTATCCTGTATGTAA
TAAAGTCTTTCTAGATCCTATGTGAAAGAAAAGTGAAGCAACTGAATCTTCAGCATGTTCTCATCGGCGGAGC
CTTCTTGTGTAATGTAACTGTGCCATGTTATTAATAAATGTGAACT

MDGPTRGHGLRKKRRRSRQDRERRSRGGLGAGAAGGGGAGRTRALSASSSGSDKEDNGKPPSSAPSRPRPPRR
KRRESTSAEEDIIDGFAMTSFVTFEAELEKDVALKPQERVEKRQTPLTKKKREALTNGLSFHSKKSRLSHPHYSS
DRENDRNLCQHLGKRKKMPKALRQLKPGQNSCRDSDSESASGESKGFHRSSSRERLSDSSAPSSLTGTGYFCDSDS
DQEEKASDASSEKLFNTVIVNKDPELGVGTLPEDHSQDAGPIVPKISGLERSQEKSQDCCKEPIFEPVVLKDPCF
QVAQPIQPQTEPQLRAPSPDPLVQRTEAPPQPPPLSTQPPQGPPAEALQAPAPQPQVQRPPRPQSPTQLLHQNL
PPVQAHPSAQSLSQPLSAYNSSSLSLNSLSSSRSSSTPAKTQPAPPHISHHPSASPPFLSLPNHSPHLSFTPTLQP
PAHSHHPNMFAPPALPPPPPLTSGSLQVAGHPAGSTYSEQDILRQELNTRFLASQSADRGAASLGPPLYLRTEFH
QHQQHQHQTHQHTHTHTFTFPFHAIPPTAIMPTPAPPMFDKYPTKVDPPFYRHSLSFHSYPPAVSGIPPMIPTGPF
GSLQGAQPKTSNPIDVAARPGTVPHLLQKDPRLTDPFRPMLRKPGKWCAMHVHIAWQIYHHQKQVKKQMQSDF
HKLDFGLKPEFLSRPPGPSLFGAIHHPHDLARPSTLFSAGAAHPTGTPFGPPPHSNFLNPAAHLEPFNRPSTF
TGLAAVGGNAFGGLGNPSVTPNSMFGHKDGPVQNFNSPHEPWNRLHRTPPSFPTPPPWLPKGELEERSASAAHD
RDRDVKDRDSSVSKDDKERESVEKRHSSHPSPAPVLPVNALGHTRSSSTEQIRAHNLTEAREKDKPKERERDHS
RKDLAADEHKAKEGHLPEKDGHGHEGRAAGEEAKQLARVSPYVRTPVVESARPNTSSSREAEPRKGEPAYENPK
KSSEVKVKEERKEDHDLPEAPQTHRASEPPPNSSSVHPGPLASMPMTVGVTGIHPMNSISSLDRTMMTTFM
GISPLPGGERFPYPFSFHWDPIRDPLRDPYRELDIHRDPLGRDFLLRNDPLHRLSTPRIYEADRSFRDREPHDYS
HHHHHHHHPLSVDPREHERGGHLDERERLHMLREDYEHLRLHSVHPASLDGHLPHPSLITGGLPSMHYPRISPT
AGNQNGLLNKTPPTAALSAPPLISTLGGRPVSPRRTTPLSAEIRERPPSHLKDIEAR

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FIGURE 1001

GGCACGAGGGGCAGCATGGCGTCCGTGACGCTGAGCGAGGCGGAGAAGGTGTACATCGTG CATGGCGTCCAGGAA
GACCTCCGTGTGGATGGCCGTGGCTGTGAGGACTACCGATGTGTGCGAAGTGGAACTGATGTGGTGTCCAACACT
AGTGGGTCCGCCAGGGTCAAGCTGGGTACACAGACATCTTGGTGGGAGTGAAAGCAGAAATGGGGACGCCGAAG
CTGGAGAAACCAAATGAAGGCTACTTGGAGTTCTTTGTTGACTGTTTCAGCCAGTGCTACCCCTGAATTTGAAGGT
AGAGGAGGTGATGACCTTGGCACCAGATCGCTAACACCCTCTATCGGATATTTAACAATAAAAGCAGTGTGCGAC
TTAAAGACCCTCTGCATTAGTCCTCGGGAGCACTGCTGGGTTCTCTATGTGGATGTGCTGCTTCTGGAATGTGGT
GGAAATTTGTTTGATGCCATTTCATTGCTGTAAAGGCTGCTCTTCAATACAAGGATACCAAGGGTTCGAGTT
TTGGAGGATGAAGAGGGGTGGAAGGACATTGAATTGTCAGATGACCCCTATGACTGCATACGACTAAGTGTGGAG
AATGTCCCTGCATTGTCACTCTGTGCAAGATTGGCTATCGGCATGTGGTGGATGCTACTCTTCAGGAGGAGGCC
TGCTCGCTGGCCAGCTTGCTGGTGTGCGGTGACCAGCAAGGGAGTTGTGACGTGCATGAGGAAAGTGGGGAAGGGC
AGCCTGGACCCAGAGAGCATCTTCGAGATGATGGAGACTGGCAAGCGTGTGGGCAAGGTACTGCATGCCTCCTTG
CAGAGTGTCTGCACAAGGAAGAAAGCCTGGGGCCCAAGAGACAGAAAGTTGGATTCTTGGGATGATTGACACAT
CAACTGCTCAACTGTGGATTGTTTTTACTTTTCTTTTAAACCGGTTTCGTATATATTTTTCTTCGCTGTTACGA
ATTTACAGCAGCATTTGTACATGTAAAATTAAAGGCTATTTTCTGGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1002

MASVTLSEAEKVYIVHGVQEDLRVDGRGCEDYRCVEVETDVVSNTSGSARVKLGHTDILVGVKAEMGTPKLEKPN
EGYLEFFVDCSASATPEFEGRGDDLGTETIANTLYRIFNNKSSVDLKTLCISPREHCWVLYVDVLLLECGGNLFD
AISIAVKAALFNTRIPRVRVLEDEEGSKDIELSDDPYDCIRLSVENVPCIVTLCKIGYRHVVDATLQEEACSLAS
LLVSVTSKGVVTCMRKVKGSLDPESIFEMMETGKRVGKVLHASLQSVLHKEESLGPKRQKVGFLG

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FIGURE 1003A

AGGGCGTGGTCAGCGCGGCCGAAGGGCGTGGTTGGCGCTCGGTCCTGCCCTGCGCGTTTTGGGCTGCGGTTGGAG
GGCCGCAGTTGCAGTCAGGGTCCGCCAGCTCGGGGCCAGCGCATGGGGCTGCTGAGACCGCTCCGGACGTGCGAA
GCGTTGCGGGTGGGTAGGAAGCTGAAGTCTTCAGCAGAACCTGACCTAGGTAGGGAGTCTCAATGGCCCTGGG
TGAAGAAAAGGCAGAAGCGGAAGCATCTGAAGACACAAAGGCCAGTCTATGGGAGAGGGAGCTGCAGGGAGCG
GGAGCTGGACATCCAGGGCCCATGAGTGGGGAGCAGCCCCACGCCTGGAAGCTGAGGGAGGGCTCATCTCCCC
TGTATGGGGGGCAGAAGGGATACCTGCCCTACTTGTCTGGATTGGGACTGACCCTGGCGGGCCCTCTAGAGCCCA
CCAGCCACAGGCCAGTGATGCCAACAGAGAGCCCGTAGCTGAGAGGTCTGAGCCTGCACTCAGTGGCCTGCCTCC
TGCCACCATGGGGTCTGGAGACCTTCTGCTCTCCGGGGAAAGCCAGGTGGAGAAGACCAAGCTTTCTCTCCGA
GGAGTTCCCTCAGACTCTGAGCCTTCCAGAACAACTATTTGCTCAGGACATGATGCTGATACCGAAGATGA
TCCATCCCTAGCAGATTTGCCCCAGGCACTGGACCTCAGCCAGCAGCCTCACAGCTCAGGTCTCTCTTGCTGTG
ACAGTGGAAAGTCCGTGCTGAGCCAGGTTCCGCAGCTCAGCCTTCCAGCTGCAGCATCTCTGCTTCTCCACAGG
CAGCAGTCTCCAGGGTCAACAGGAGAGGGCGGAGCCTCGTGGTGGTTCTCTGGCCAAGGTCTCTCTCCCTGGA
GCCGGTCTGCCCCAGGAACCTTCTCTGTGGTGGGGCTAGGACCTCGGCCCCAGTGGTCAACACAGCCTGTGTT
CTCTGGGGGTGATGCTTCTGGGCTAGGCAGGAGACGCCCTCTCTTCCAGGCTGAGTACTGGGCTGTGTGCTGCC
AGATTCCTTGCTTCCATCACCCGACCGCCACTCCCTCTCTGGAACCCAAATAAAGAGTATGAAGATCTGCTGA
CTATACTTACCCACTGAGGCCCCGGCCCTCAGCTCCCAAAGCACCTTGATAGCCGTGTGCCAGCTGACCCTGTCTT
GCAGGACTCCGGGGTAGACCTGGATAGCTTCTCTGTCTCTCCAGCAAGCACCCCTCAAATCACCCTACTAATGTCTC
CCCCAAGTGGCCACCAGCAGAGGCCACTGCCCTGCCATTTTCTGGGCCCAGAGAGCCAAAGCCTTAAGCAGTGGCC
CTCCAGAGTACCCAGAAACAGGGTGGCATGGGCTTGGCATCTTGAGCCAACTTGCATCTACCCCCAGAGCCCC
AGGCAGTAGGGATGCTCGTTGGGAGCGCAGAGAGCCAGCCTGAGGGGTGCGAAGGACCGGCTGACTATAGGCAA
GCACCTTGATATGGGCTCTCCCCAGCTAAGGACACGGGACAGAGGGTGGCCCTCGCCAGGCCAGAGAGGGAGAA
GAGGACCAGCCAGAGTGGCCGGCGCCCTACCTGCACAGAGTCTAGGTGGAATCAGAAGAGGAAGTGGAAAGTGA
TGACGAGTATCTTGCCCTCCCGCTCGGCTGACAAGGTTCTAGCCTGGTTTCGTATCTAGGATCCATTTCTAC
CTTGGTTACCCTGCCCACTGGGGATATCAAAGGGCAGAGCCCTTGGAAAGTGTGAGACAGTATGGGCCAGCTTC
CTTCCCTTCAAGCTCCAGCCAAAGCCAGCTTCCCCCTGGAGCTGCCCTCCAGGATCTGGGGATCCTGAGGGCCA
GAATCCCTGTTTCTGCGCTCCTTCGTCCGTGCCACGACTCCGCAGGGGAAGGCAGTCTGGGGAGCAGCCAGGC
CCTCGGGGTCTCTCTGGACTGCTGAAAACACGCCCTCCTTGCCAGCTAGGTTGGACCGGTGGCCATTCTCAGA
CCCAGATGTTGAAGGGCAGCTTCCCAGGAAAGGAGGAGAACAGGGAAAAGAAATCACTGGTGAATGTGTGAAGAC
ATTTTGCTGTGAGCTGGAAGAGCTGATCTGCTGGCTGTATAATGTTGAGATGTTACTGACCACGGGACTGCAGC
CAGGTCCAATCTTACAAGTCTCAAGTCTTCTCTGCAGCTTTACCGGCAATTTAAGAAAGATATAGATGAACATCA
GTCTCTGACGGAGAGTGTCTTACAGAAGGGGGAGATTCTTCTTCAGTGCCTGTTGGAGAACACCCAGTTTTAGA
GGATGTCTTGGGAGGATCGCAAAGCAGTCTGGTGAGCTGGAGAGCCACGCAGATCGCCTGTATGACTCTATCTT
GGCCTCTCTGGACATGCTGGCTGGCTGCACCTTATCCCTGACAAAAAGCCCATGGCGGCAATGGAGCACCCTATG
TGAAGGGGTTTAACTGGCATCTTCTCAGGCAGAGGTGCAACCTGTGCGCCAAACACTGGCTAGTGAGAAAAAT
CCTTCAAGAAGTCCCTTGAAGAGCCATTCAACACTGAAGTCAAGGGGGAAACCTTCAATATACTAGCTTTAAAT
GCCCTTCTCCTCCCTGAATGGAGGGCTGAGTTACTATTTTTTATTTACAATGAATCCTTCCAAACTAAGGTTTTCC
TTTTGGTGCTTCTCCACAAAGAGCGTGTAGCTTTGCAATTTTTGATAAAATAAGACGTGTGCCTTCCCCTCTAT
CCCATTAAAAAAGAGCAGATAAAGCTCAAACCTATCCACCTGGTAGGGTCATTTACCAAGGGCTGGTAGGAGATT
CCGAATACTCAATATTCTCAGGCATGCAAGAGGACCTAAGAGACTGAAAAAGTGAATTGTTGGCCAGAAACCTT
GGGTCTTTTCATAAAGGAAATTTGGGCTTGTCATCCCTCTTTAAAGATATAGGTAGAAAGAAGAGATTTTTAAC
CCTTTGTCTGCAAAAGAAAAAGGGTTAAATGAAGCATCTATACAGATGACTTTGGGAGATTATGACACCTTTTGC
CATCTTCAGGGCTTACGTCTTTACTTTCTTGGCTAACAGTTTCTTAGAAGAAAATGTGTGAGGACTTTGGGGAT
CTACAGTCATGCTTTAGCATGGCTATGGAGCTAATTATCAAGCTTAAAGGGTAACTTTGGGAGGACTCCTCCCTT
CACTCCTAGTCTCCCTTGAAGAGCAGTCCAGGCTCAGGGAAGGGAATGGATAGGATGACACAGTAAGTACAGAA
ACTGAAGCTGTCAATAGTGAAGGAAAAAGGGGAATCTTCGTTGCTTTGGCATTGACACATAAGTACTTTGATTA
AAAAAATAAATACTATGGATCAACCATTCAAAGCATCAATTCTATAGCTTTTTGCAGCAAGATGATCAGTTATT
GCTGGTAACTGCAGATTCTACAGAAAAGCACTTTTAAAGTTCTGTGGGCCATGAATGAACCTGGAAGGAGGAAA
GCACAGTAACAATGGAACATAAGTCTATTATTAATGTGACTTTCTGCTTCAGAATTTCTGAGACTTTATAGT

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FIGURE 1003B

CACTGGAAAATAGCCATTAAATTCTTTAAAGATTAGCTCTTCAACAGTAGCTACACATAAAATGCAGTATTTCAA
GTGCCTGATGCTGCTGTGGTATGCTTTATCATAATGCTTAAGGGCATGATCAAAATTAAAATGGCTTATGAGTTT
GCCATATTAATCATCTTAGTTCATACACACTGAGACTTTAAAAGGGAAAAACCACTCTAGCAAATAATTGTCAA
TTATAAACCTGTATGTAAAACATTCTTGAAAACCTAGAGTTGGTTAAAAAGGTAGAGATGTCTGACGGCCTCTTC
TTAAATTGATATATTTTACCTTCTCTTAGATGTATATTTATAAGTAGGAACATGCTCTTCCACTGAGTATGTTAC
TGAATAGCCCTTAGGAAATTAAACCCATTTATTTACTAATATTTGACAGGCATAGAAGTGTATTAATTAGCATAA
AAGTTGGAGATGAAAACCTATAGAAACAAATTGGCCAATATTATACTAATTGAATGCAGAATGTGGCATTCTAT
TCCCATTCACTAATAATCAGCTTCAACTGACAGGAATTTGCACAGAATGTTACACAATACCCTGTTTCCCAAGA
AAGTACTACCTTACCTAGAGATGATCTAAGATATTTTGTTCATCCTCTGAATAAGGTGAGACTAAAGGGTGCTA
ACTCCCTGGACCTGGCTGTGAATGCTACTGAAGAGTATCAACACAACCTGTTAATTATACCGCCGTGCTTTAAGTT
TAAGACTTACCTTAAAACCTCAAGCTGAAGGCTGGGCACGGTGGCTCATGCCTGTAATCCAGCACTTTGGGAGGC
CGAGGCGGGTGGATCACAAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCCATCTCTACTAAAA
ATACAAAAAGAAATTAGCCAGGCGTGGTGATGGGCGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCATGAGAA
TGGCATGAACCCGGGAGGCGGAGCTTGCACTGAGCTGAGATGGCACCCTGCACTCCAGCCTGGGCAACAGAGTG
AGACTCTGTCTCAAAAAAAAAAATCAAGCTGAAATTGTTTCAGCCTAGTAAGATGCTGCCAGCAGCATTTCTA
TGAGCAAACATGGCCAAATTAGAGTCAAGTAGCTGAGCTTGCTAACTGCACTGTGATGCCACACTGGAATAACTT
AGTAGTCCCTTAAAATTAAATGGAAGTTAAATCCACAGGGAAGTGATGATACTCAAAGCTGGATCAGCAGTTTCAA
GATCTGGGTTCTTGGAGATCCATAGGTAAGCTCAGCAAAATGGAAGACGACGTCAACACAGGCTATTTTGAAGCT
TAGGTGGGAATGGAACACAAAGAAGTTTGAGGTAAGATATGCTGGAAAGGCAAGATGTAGGCTAAGGGAAATTC
AATCCAAGGTCGAAGAATAGGAAATTACTGCTCAGACCACAATGACTATCATTCTGAAAGGATTTTACAGAGTGT
GCAGCTGCTTAGATTTAAGAACACTCTTCTTCACTATGTAACTAATTTATGGCAGCACCTTATATTTAGAACAA
GTGGTAATTCCCTTTACTAAGTGAACAGATTATTAACCTGTAGTAGCTTGAACCGTTTGTACTTGAAAATGG
GGGTATAAAGGGGTATATATTTTTTCCAGAACCACATTTATTGGCGTATACATAGAAGCAAATCTTAAGGCATGC
TGAAATTTGTTGTAAATCCAATCTTTACTGCCATGGGGAAAAGAACGCTGGAATTTTCCAACTTAAGTCTGTA
AATATGCTCATCTTAAGTTCATGTAATGTTTCCGCTAACTCACCAAGAATAAGCTGACAATTTAAACAACTTT
CTGTGTAAAAATGAAGTGCACGGCATGGCATCACAGTATCTTGACATTTGTTTGTGTCTATTTAGCTACTTTAGA
AAATAGTTTCTGAACCTCTTCCCCCTTTTACTGTATTAAAGGCAAAAACAAAACCTTCTGAAGCATTAAAGATCTT
CACCAAAATAACTATTGGTAACTTCAAGGAATTTGTCACTTGCCCTATGTGAGGATGAATAGATCCACCAAGCAG
CCTATAATACAAAGTAACTATGATTTTTTATTGTGAAATTTTCATAGATGGAAAATTGAATATCTGTCCATTT
ATTTTACAATTATCTTACCCTTATTTTGTACCATGTATTCAATTGCCTGTTAGTGAAAAATAAAAATTAA
AAAACCT

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FIGURE 1004A

CGCCGGCGGGCCGTGTGTGAGGAGCAGTAGAGAACTGTGGACTATTCTGCTTGGAAAGGTCAGCTCTGAGAGAGCT
GAGTCAGATTGAGGCAGAACTGAATAAACATTGGCGGCGATTGTTAGAGGGGCTTTCTTACTACAAACCTCCCAG
TCCAAGTTCAGCTGAAAAAGTGAAGCTAATAAGATGTAGCTTCACCATTGAAGGAACTGGGTTTAAAGAATCAG
CAAGTTTTTGGGTCTTGATGAAGAACAGAGTGTGCAGTTACTCCAGTGTTACCTGCAAGAGGACTACAGGGGTAC
TCGGGACTCAGTAAAGACAGTACTGCAAGATGAGAGGCAGAGCCAGGCCCTAATCCTGAAGATTGCAGATTATTA
TTATGAAGAAAGAACCCTGTATTCTTCGTTGTGTCTTACACCTTCTCACTTACTTCCAAGATGAAAGACACCCCTA
TAGGGTTGAATATGCAGACTGTGTTGATAAATTGGAGAAGGAACTAGTTTCAAATAACAGACAGCAGTTCGAAGA
GCTTTATAAACTGAAGCACCAACTTGGGAGACACATGGAAATCTCATGACAGAGCGCCAAGTGCTCTCGTGGTT
TGTTCAAGTGCCCTTCGGGAACAGTCCATGCTGCTAGAAATTATTTTCTTTATTATGCATACTTTGAGATGGCACC
CAGTGACTTACTTGTATTAACCAAGATGTTTAAAGAGCAAGGATTTGGTAGTAGGCAGACCAATAGGCACCTGGT
GGATGAGACTATGGATCCTTTTGTAGATCGGATTGGCTACTTCAGTGCCCTCATCTGGTGGAGGGCATGGATAT
CGAGTCTTGCATAAGTGTGCTTTGGATGACAGAAGAGAACTGCATCAGTTTGCAGGATGGGCTTATTTGTCA
GGATATGGACTGTTTAAATGTTGACCTTTGGGGACATTCCACATCATGCCCCAGTGCTTTTGGCCTGGGCTCTCCT
CCGTACACTCTGAACCCAGAAGAGACAAGCAGTGTGGTCCGGAAGATAGGTGGCACAGCCATCCAGCTGAATGT
GTTTCAGTACTTGACCCGATTGCTCCAGTCCCTTGCCAGTGGGGGAAATGATGCAACCACAGCACTGCATGCAT
GTGTGTCTATGGACTGCTCTCTTTCGTTCTGACCTCGTTGGAGCTGCACACCCTGGGCAATCAGCAGGATATAAT
TGATACAGCATGTGAAGTATTGGCCGACCTTCTCTTCCGGAAGTGTCTGGGGAACAGAGCCAACCTTCTGGCCT
TGGGATCATTCTGGACAGTGTGTGTGGAATGTTTCCCCACCTTCTCTCCCCACTCCTGCAACTGCTCCGAGCCCT
GGTATCAGGGAAGTCCACAGCCAAAAGGTGTATAGCTTCTTGGATAAGATGCTTTTCTACATGAACCTTTATAA
ACACAAGCCTCATGATGTGATCTCCCATGAAGATGGAACCTTTTGGCGGAGACAAACACCCAACTCCTTTATCC
CCTTGGGGGTCAAACCAACCTTCGCATACCTCAAGGCAGTGTGGGCCAAGTAATGTTGGATGATAGGGCATACCT
GGTACGCTGGGAATACTCCTATAGCAGCTGGACCTCTTTACCTGCGAGATTGAAATGTTGCTTCATGTTGTTTC
AACTGCAGATGTGATTGAGCACTGCCAGCGAGTCAAACCCATCATTGATCTCGTCCATAAGGTCATCAGTACAGA
CCTGTICGATAGCAGACTGTCTCCTGCCCATCACATCTCGCATCTACATGCTGCTGCAGCGGTTAACGACAGTGAT
CTCCCCACCTGTGGATGTCATTGCTTCTTGTGTCAACTGCTTAACTGTTTTGGCTGCCCGCAATCCAGCAAAGGT
CTGGACTGATCTTCGTACACAGGTTTTTTTACCATTGTTGGCCCATCCTGTCTCCAGCCTGAGTCAGATGATTAG
TGCGGAAGGGATGAATGCTGGAGGGTACGGAAACCTCTTGATGAACAGTGAACAGCCTCAGGGCGAGTATGGGGT
TACTATTGCCCTTTCTGCGCTTGATCACCACCTTGTCAAGGGGCAACTTGGTAGTACCCAGAGCCAAGGACTTGT
ACCCTGTGTAATGTTTGTGCTGAAGGAGATGCTTCCAGCTACCATAAGTGGCGCTACAACCTCTCATGGAGTGAG
GGAACAGATTGGTTGCCTGATCTTGGAGCTGATTGATGCGATACTGAACCTGTGCCACGAGACAGACCTGCACAG
CAGTCATACTCCAGCCTGCAGTTTCTCTGCTATCTGCAGCCTGGCATAACAGAAAGCAGGACAGACAGTTATCAA
TATCATGGGCATTGGCGTGGACACCATTGACATGGTGATGGCTGCTCAGCCTCGAAGTGATGGGGCAGAGGGCCA
GGGGCAGGGCCAGCTGCTGATCAAGACAGTGAACCTGGCATTCTCCGTACCAACAATGTTATTGGCTGAAACC
TCCTTCTAATGTGGTGTCCCCCTGGAACAGGCTCTCTCACAACATGGTGCTCATGGAAACAACCTCATTGCTGT
TCTAGCCAAATACATCTACCACAAACATGACCCTGCTTTGCCACGTCTTGCCATTGAGCTGCTGAAACGTCTGGC
CACGGTGGCCCCAATGTCAGTGTATGCTTGTCTGGGCAATGATGCGGCTGCCATTGCTGATGCCTTCCTGACCCG
ATTGCAGAGCAAAATTGAGGACATGCGCATCAAAGTCATGATTCTAGAGTTCTCACTGTTGTCAGTAGAGACCCA
GCCAGGCCTCATCGAACTGTTTCTGAACCTGGAAGTTAAGGATGGCAGTGATGGCTCAAAGGAATTCAGCCTTGG
GATGTGGAGCTGCTCCATGCAGTGCTGGAGCTGATTGATTCCCAACAGCAAGATCGATACTGGTGCCACCCCT
GCTGCATCGTGCCGCCATTGCCTTTTGCATGCTCTGTGGCAGGATCGGAGGGACAGTGCCATGCTGGTCTCTCCG
AACCAACCCAAGTTTTGGGAAAATTTAACAGTCCGCTGTTTGGAAACCTTTCTCCTCCCTGAAACATCAGA
GCCAGCATCCTGGAAACCTGTGCCCTAATCATGAAGATAATTTGCTTGGAGATATACTATGTAGTAAAGGGTTC
ATTAGACCAGTCATTAAAGGATACACTGAAGAAATTTCCATCGAGAAACGCTTTGCCTACTGGTCAGGGTATGT
CAAGTCATTGGCAGTTCACGTGGCCGAAACAGAAGGCAGCAGTGCACCTCCTTGTAGAGTACCAGATGCTGGT
GTCCGCTGGAGGATGCTTCTCATCATTGCCACCACTCATGCAGATATAATGCACCTGACTGACTCTGTGGTGCG
TCGCCAGCTCTTTCTTGACGTGCTTGATGGAACCAAGCATTACTCCTAGTTCCAGCCTCAGTGAAGTGCCTTCG
CCTTGGCTCCATGAAGTGCACTCTGCTGCTTATCCTCCTCCGGCAGTGGAAGAGAGAGTTAGGTTCTGTGGATGA
AATCCTTGGACCTTGACGGAGATCCTGGAGGGAGTGTGTCAGGCCGACCAGCAACTCATGGAGAAGACCAAGGC

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FIGURE 1004B

CAAGGTGTTCTCAGCATTTCATCACAGTGTGCAAATGAAGGAGATGAAAGTAAGTGACATCCCCAGTACTCCCA
GCTGGTGCTGAATGTCTGTGAGACCCCTCCAAGAGGAAGTGATTGCACTCTTCGACCAGACCCGCCACAGTCTGGC
ATTAGGCAGTGCCACAGAGGACAAGGACAGCATGGAGACTGACGACTGTTCTCGGTCCCGGCACAGGGACCAGCG
TGATGGGGTGTGTCTTGGGCTGCACCTGGCCAAGGAGCTGTGTGAGGTAGACGAGGATGGTGACTCCTGGCT
GCAGGTAACCCGCAGGCTCCCCATCCTACCCACCCCTCCTCACCCTCTAGAGGTGAGCCTTCGCATGAAGCAGAA
CCTGCATTTCAGTGAGGCCACATTGCATCTGCTCCTCACCCTGGCTCGCACTCAGCAGGGAGCCACAGCAGTGGC
TGGAGCTGGCATCACCCAGAGCATTGTTTGGCCCTTCTGAGTGTGTACCAGCTGAGCACCAACGGGCACAGCACA
GACACCTAGTGCCTCTCGGAAGTCCCTGGATGCCCCCTCTGGCCAGGAGTCTACCGCCTGTCCATGTCCCTGAT
GGAGCAGCTGCTCAAACTCTGCGCTACAACTTCTGCTGAGGCCCTGGACTTCGTGGGTGTCCACCAGGAGCG
GACCTTACAGTGCCTCAACGCAGTGAGGACAGTGCAGAGTCTGGCCTGCCTGGAGGAGGCGGACCACACCGTGGG
TTTTATTCTGCAGCTCTCTAACTTCATGAAGGAGTGGCACTTCCACCTGCCTCAGCTCATGCGTGATATCCAGGT
CAACCTGGGTACTTGTGCCAGGCATGTACCTCTCTCTGCACAGTCAAAGATGCTGCAGCATTACTTACAGAA
CAAAAATGGGGATGGCCTCCCTCAGCTGTTGCCAGCGAGTCCAGAGGCCACCGTCTGCTGCTTCTGCTGCCCC
CTCCTCCTCAAAGCAGCCCGCTGCTGACACAGAGGCATCAGAGCAGCAGGCCCTGCACACAGTCCAGTATGGCCT
TCTCAAGATCCTCAGCAAGACGCTGGCAGCCCTGCGCCACTTACCCAGATGTCTGCCAGATTCTGCTGGATCA
GTCCCTGGACCTTGCTGAATACAACCTTCTGTTTGGCCTGAGCTTTACCACTCCACCTTTGACTCCGAAGTGGC
CCCCCTCTTCGGGACCCTTCTGGCCACAGTGAATGTGGCCCTCAACATGCTTGGAGAGCTGGACAAGAAAAAGGA
GCCCCCACCAGGCAGTGGGGCTCAGCACACAGGCAGAAGGGACCAGGACGTTAAAGTCCCTCCTGATGTTTAC
CATGGAAACTGCTTCTACCTGCTCATCTCTCAGGCGATGCGGTACCTTAGGGACCCGGCTGTGCACCCCCGGGA
CAAACAGCGGATGAAGCAGGAGCTCAGCTCTGAGTTGAGCACGCTGCTGTCCAGCCTCTCGCGCTACTTCCGCCG
GGGAGCCCCAGCTCCCTGCCACTGGTGTCTCCCTCGCCGAGGGCAAGTCCACCTCTCTCTCCAAAGCCAG
CCCTGAGAGTCAGGAGCCTCTGATCCAGTTGGTGCAGGCGTTTGTCCGGCATATGCAAAGATAGGGCAGTGCTGT
TCTGCCACCTACCCCTCTCCACCAGCCTACACTGCACCCTGGCTGGCAGGGGTGCTGCTGGCTGCTAGGGCCTA
TACAAATGGAGGGCACCTCCTGTACCCCCCTCCCGGAGTAGCCACGACTCCAGCCACCACCCACTGACGTTATTT
TTATACTAGATGAAGAGGTCAACAGCAGGCATGGGGAGCCGAGTCTTCTGTGCTCAGGTCTCTACGCTGCAGACG
CCCCCTAGAGGAACCTTTCCTTCTTCCAGCATTCCCCACAGCACTGCCGGCCAGGGGAGAGGGCGGCAGCCCAGC
AGAGGGCTCTATGCACGGGTTTCAAACCTGTTTTCCACACTCTGTCTTTGCAGTTTGGTAATTCTGTGGTCTAT
TTATACAGATATTAAATCTTGTATAGAC

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FIGURE 1005A

GGCCGAGTCGTGGCGGGAGACGGTGCAGCTGTACGAGGACGAGGTGCGCGAGCTGGAGGAGGCGCTGCGGCGCGG
CCAGGAGAGCAGACTCCAGGCGGAGGAAGAGACGCGGCTGTGCGCGCAGGAGGCAGAGGCGCTGCGGCGCGAGGC
GCTCGGGTTGGAGCAGCTGCGCGCGCGGCTGGAGGACGCGCTGCTGCGGATGCGCGAGGAGTACGGGATACAGGC
CGAGGAGCGGCAGAGAGCGATTGACTGCCTGGAGGATGAGAAGGCAACCCCTACCTTGGCCATGGCTGACTGGCT
GCGGGACTATCAGGACCTCCTGCAGGTGAAGACCGGCCCTCAGTCTGGAGGTGGCGACCTACCGGGCCTTATTGGA
AGGAGAAAGTAATCCAGAGATAGTGATCTGGGCTGAGCACGTTGAAAACATGCCGTGAGAAATCAGAAACAAATC
CTATCACTATACCGACTCACTACTACAGAGGGAATGAATGGAATCTATTTTCAAGGCAGAAAGCACCTTTGGC
AAGTTTCAATCAGACTCGGCACTGTATTCTAACCTGTCAGGGCACCGTGGATCTCAGACGGGCACATCTATTGG
AGGTGATGCCAGAAGAGGCTTCTTGGGCTCGGGATATTCTTCTCGGCCACTACCCAGCAGGAAAACCTACATACGG
AAAAGCCGTCAGCAGTCAAACCAACGTGAGAACTTTCTCTCAACCTATGGCCTTTTAAGAAATACTGAGGCTCA
AGTGAACACATTCCCTGACAGACCAAAGCCGGAGATACAAGGGAGGTCCCCGTTTACATAAGTGAAGATTCCAC
AATTGCCCCGAGTCGTACCGGGATCGCCGAGACAAGGTGGCAGCAGGTGCTTCGGAAGCACACGGTCAAATGA
GAGGACCGTCATTCTGGGAAAGAAAACAGAAAGTGAAGCCACGAGGGAGCAAGAAAGAAACAGACCAGAAACCAT
CCGAACAAAGCCAGAAGAGAAAATGTTTCGATTCTAAAGAGAAGGCTTCTGAGGAGAGAAACCTAAGATGGGAAGA
ATTGACAAAGTTAGATAAGGAAGCGAGACAGAGAGAAAGCCAGCAGATGAAGGAGAAGGCTAAGGAGAAGGACTC
ACCGAAGGAGAAGAGTGTGCGAGAGAGAGAGGTGCCGATTAGTCTAGAAGTATCCCAGGACAGAAGAGCAGAGGT
GTCCCCGAAAGGTTTGACAGCGCTGTGAAGGATGCTGGTGGTGGGACCGGTAGAGAGGCAGAAGCAAGAGAGCT
ACGGTTTCAGGTTGGGCACCACTGATGCCACTGGTTCTCTGCAAGGCGATTCCATGACAGAAACCGTAGCAGAAAA
CATCGTTACCAGTATCCTGAAGCAGTTCAGTCTCAGAGACAGAAGCATCTGCTGATTCTTTTCAGACAC
AAAAGTCACTTACGTGGACAGGAAAGAGCTTCTGGGGAAGGAAAACAAAGACTGAAATAGTTGTGGAGTCTAA
ACTGACTGAGGATGTTGATGTTCCGATGAAGCTGGCCTGGACTACCTTTTAAGCAAGGATATTAAGGAAGTGGG
GCTGAAAGGCAAGTCAGCCGAGCAGATGATAGGAGACATCATCAACCTCGGCCGTAAGGGGAGGAGGGGAGAGC
AAAGGTGCTCAACGTGGAGATCGTGGAGGAGCCCGTGAGTTATGTCAGCGGGGAGAAGCCGGAGGAGTTTCCGT
CCCATTCAAAGTGGAGGAGGTGGAAGATGTGTCGCCAGGCCCTGGGGGTTGGTTAAGGAGGAGGAAGGTTATGG
AGAAAGCGATGTACATTCTCAGTTAATCAGCATCGAAGGACCAAGCAGCCCCAGGAGAACACGACTCACGTGGA
AGAAGTGACAGAGGCGAGGTGATTGAGAGGGCGAGCAGAGTTATTTTGTGTCCACTCCAGATGAACACCCCGGGG
GCACGACAGAGATGACGGCTCGGTGTACGGGCAGATCCACATCGAGGAGGAATCCACCATCAGGTACTCTTGGCA
GGATGAAATCGTGCAGGGGACTCGAAGGAGGACACAGAAGGACGGTGCAGTGGGCGAGAAGGTTGTGAAGCCCTT
GGATGTCCCAGCGCCCTCTCTGGAGGGGACCTGGGTTCCACTCACTGGAAGAACAAGCTAGAAGCGGTGAATT
TCATGCCGAACCCACAGTCATTGAAAAAGAAATTAATAATACCCACGAATTCACACCTCCATGAAGGGCATCTC
CTCCAAGGAGCCCCGGCAGCAGCTGGTGGAGGTGATCGGGCAGCTGGAGGAAACCCCTCCCGAGCGCATGAGGGA
GGAGCTGTCCGCCCTCACCAGAGAGGGGCGAGGTGGGCGGGGAGCGTTTCCGTGGATGTCAAGAAGGTCCAGGG
TGCTGGTGGCAGTTCCGTGACCCGTGGTGTGTAAGTCAACGCTCACAACCTGTGGATGCCGATCGGTTAGACCT
GGAGGAGCTGAGCAAAGATGAGGCCAGTGAGATGGAGAAGGCTGTGGAGTCGGTGGTTCGGGAGAGCCTGAGCAG
GCAACGCAGCCAGCGCTGGCAGCCAGATGAGGAAGGTGGAGCGGAGGCCCGGCTGCTGGCATTTCGCTTCAG
GCGTTGGGCCACCCGGGAGCTGTACATCCCTTCAGGCGAGAGCGAGGTTGCTGGTGGGGCCTCTCACAGCTCGGG
ACAGCGCACTCCCCAGGGCCAGTGTGGCCACTGTGGAGGTGAGCAGCCCCACAGGCTTTGCCAGTCACAGGT
GCTGGAGGATGTGAGCCAGGCTGCAAGGCACATAAACTCGGCCCTCTGAAGTCTGGAGGACTGAGCGAATGTC
ATATGAAGGACCCACTGCAGAAGTGGTGGAGGTAAGTGCGGGAGGTGACCTAAGTCAGGCAGCGAGCCCCGACGG
AGCCAGCCGGTCTGTGAGGCATGTCAGCTGGTCCCGGTCAAAGTCCACTGTCCAGAGAAGTCATCTTCTTAGG
CCCTGCCCTGCTGTCCAGAGGCATGGGGCTCGCCAGAACCTGGCCAGCAGAGTCTTCTGCAGATATGGACGG
ATCAGGGAGGCACAGCACATTTGGCTGCAGACAATTCATGCTGAAAAGGAGATTATTTTTCAGGGCCCCATTTT
TGCTGCAGGGAAGGTTGGTGATTATTTTGAACAGAAGAGTCAAGTGGGTACCCAGACTTCTGTGAGCAACTCCA
GTTAGGCCCTAAAGAAGGGTTTCAAGTGGGCAATCCAGTTCACAGCTCCACTTTTTCAGACAAGGTGGAGTTGGGTGT
CATAGGAGATTCTGTACATGGAAGGGTTGCCAGGGAGCAGCACATCCATCAGGCACATCAGCATTGGGCCTCA
GAGGCATCAGACCACCCAGCAGATAGTTTACCATGGGCTGGTTCCCAACTGGGGGAATCTGGTGAATCAGAGAG
CACTGTGCACGGAGAGGGCTCAGCAGATGTGCACAGGCCACTCAGATCATACCTCGGGTAGACAAACCGTTAT
GACTGAAAAGAGCACCTTCCAAAGTGTGTTTCTGAATCTCCCAGGAGGATAGTGAGGGGACACATCAGGGG

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FIGURE 1005B

AGAAATGACATCGGGTGTAGCAGATCCTTTAGGCACATTTCGACTAGGTCTACAGAAACGGAAACCTCTGAACA
CATTGCCATCCGTGGACCCGTGTCCAGAACATTTGTGCTTGCTGGTTACGCGGACTCCCCTGAGCTAGGCAAGTT
AGCAGACAGCAGCAGAACGCTAAGGCACATTGCACCAGGGCCCCAAAGAACTTCGTTTACCTTTAGATGGATGT
GAGTAACGTAGAGGCGATCCGCAGCCGACACAGGAAGCGGGAGCTCTCGGTGTGTCTGACCGTGGTTCTCGGAG
AGACGCGGACAGTAGGAATGACCAGGCAGTTGGTGTGAGCTTTAAGGCCTCTGCTGGGGAGGAGACCAGGCCCCA
CAGAGAACAGGGCAAGGAGCAGGCCATGTTTGATAAGAAGGTGCAGCTCCAGAGAATGGTAGACCAAAGTCCGT
GATTTTCAGATGAAAAGAAAGTTGCCCTCCTCTATCTAGACAATGAGGAGGAGGAGAATGATGGGCATTGGTTTTA
ATAAGCAGAAACATTTTGTTTAATGGCAGCCTGTTGGCGACGTGCCAACATCCAAAGGCCCTAACCTTATTTTAA
GAGGCCGAGGGAGTCTATGAAATCTCCCTTTTTTACTTTTTTAAAGAGTACTCCCGGCATGGTCAATTTCCCTT
TATAGTTAATCCGTAAAGTTTCCAGTTAATTCATGCCTTAAAAGGCAGTCAATTTTTATTTTGGAGTTGGGACT
TTTACAAAACACTTTTTTCCCTGGAGTCTTCTCTCCACTCTGGAGATGAATTTCTATGTTTGCACCTGGTCAC
AGACATGGCTTGCATCTGTTTGAAACTACAATTAATTATAGATGTCAAAACATTAACCAGATTAAAGTAATATAT
TTAAGAGTAAATTTTGCTTGCATGTGCTAATATGAAATAACAGACTAACATTTTAGGGGAAAAATAAATACAATT
TAGACTCTAAAAAGTCTTTTCAAAAAGAAATGGGAAATAGGCAGACTGTTTATGTTAAAAAATCTTGCTAAAT
GATTTTCATCTTTAGGAAAAAATTACTTGCCATATAGAGCTAAATTCATCTTAAGACTTGAATGAATTGCTTTCTA
TGTACAGAACTTTAAACAATATAGTATTTATGGCGAGGACAGCTGTAGTCTGTTGTGATATTTACATTCTATTT
GCACAGGTTCCCTGGCACTGGTAGGGTAGATGATTATTGGGAATCGCTTACAGTACCATTTTATTTTGGCACT
AGGTCATTAAGTAGCACACAGTCTGAATGCCCTTTTCTGGAGTGGCCAGTTCCTATCAGACTGTGCAGACTTGCG
CTTCTCTGCACCTTATCCCTTAGCACCCAAACATTTAATTTCACTGGTGGGAGGTAGACCTTGAAGACAATGAAG
AGAATGCCGATACTCAGACTGCAGCTGGACCGGAAGCTGGCTGTGTACAGGAAAATTGGAAGCACACAGTGGAC
TGTGCTCTTTAAAGATGCCTTTCCCAACCTCCATTTCATGGGATGCAGGTCTTCTGAGCTCAAGGGTGAAGAT
GAATACAATAACAACCATGAACCCACCTCACGGAAGCTTTTTTGCACCTTTGAACAGAAGTCATTGCAGTTGGGG
TGTTTTGTCCAGGGAAACAGTTTATTAATAGAAGGATGTTTTGGGGAAGGAACTGGATATCTCTCTGCAGCCC
AGCACCGAGATACCCAGGACGGGCTGGGGGCGAGAAAGGCCCCCATGCTCATGGGCCGCGAGTGTGGACCTG
TAGATAGGCACCACCGAGTTTAAATACTGGGATGAGCATGCTTCATTGGATTCATTTTATTTTACACGTCACTA
TTGTTTTAAAGTTTCTGTCTGTAAAGTGTAGCATCATATATAAAAAGAGTTTCGCTAGCAGCGCATTTTTTTTAG
TTCAGGCTAGCTTCTTTCACATAATGCTGTCTCAGCTGTATTTCCAGTAACACAGCATCATCACACTGACTGTGG
CGCACTGGGGAATAACAGTCTGAGCTAGCACCCCTCAGCCAGGCTACAACGACAGCACTGGAGGGTCTTCCCT
CTCAGATTACCTGGAGGCCCTCAGACCCCAAGGTGCACGTCTCCCAGGTCTTGGGAGTGGCTACCGCAGGTA
GTTTCTGGAGAGCAGTTTTTCTTATTGATAAGTGGAGGAGAAATGCAGCACAGCTTTCAAGATACTATTTTAAA
AACACCATGAATCAGATAGGGAAAGAAAGTTGATTGGAATGGCAAGTTTAAACCTTTGTTGTCCATCTGCCAAAT
GAACTAGTGATTGTCAGACTGGTATGGAGGTGACTGCTTTGTAAGGTTTTGTCGTTTCTAATACAGACAGAGATG
TGCTGATTTTGTTTTAGCTGTAAAGGTAATGGTTTTTGGATAGATGATTGACTGGTGAGAATTTGGTCAAGGTG
ACAGCCTCCTGTCTGATGACAGGACAGACTGGTGGTGAGGAGTCTAAGTGGGCTCAGTTTGTATGTCAGTGTCTGG
GCTCATGACTTGTAAATGGAAGCTGATGTGAACAGGTAATTAATATTATGACCCACTTCTATTTACTTTGGGAAA
TATCTTGGATCTTAATTATCATCTGCAAGTTTCAAGAAGTATTCTGCCAAAAGTATTTACAAGTATGGACTCATG
AGCTAATTGTTGGTGTCTAAATGTGAATCACGCGGGAGTGAGTGTGCCCTTCACACTGTGACATTGTGACATTGTG
ACAAGCTCCATGTCCTTTAAATCAGTCACTCTGCACACAAGAGAAAATCAACTTCGTGGTTGGATGGGGCCGGAA
CACAACCAGTCTTTTTGTATTTATTGTTACTGAGACAAAACAGTACTCACTGAGTGTTTTTAGTTTCTTACTGG
TGTTTTGATATTGTTTGTAAAGATGTATTTAGAATGACATCATTAAGAAGCTGATTTTGTAAACTCCTG
TTCCCTACAATGGGAAATGTCACAAGAATGTGCAAAAATAAAAATCTGAGG

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FIGURE 1006A

TTTAAACTGTGCTTTCTAAGCACAGTCAGGTAGCAAAAGTAATAAAAAGGATGGTTGAACAAGTTTTCTTGATG
TTCCAGGATATGTTTGGGACTTTTTCTTTGTTTATTATATGAGTTGTTCCCTTTGAAATTAAAGCTATTTTGTAGG
TTTTGIGGGACATAATTTGATAAGTAGAGTTAATTAAATTTCTTCTGGAAGAGATCTAAATTTCTATTCTTAGTG
AGAGACTGTAGTTAAAAGGAAGGCTTTTAGAAGTTGGGTTCAAGGAAGATGGAGATGCGTCGGAAGCTCTTTGGC
GGGGGTGAGGAAGTTCAGAAAGTGTGCATTTTCTTCTGGCATTAGGTCTTGTCCTGTTGATTGGTGGTGCTT
GGGTCATAAGCCTGATTAAAATTCAGGGACATGTACCACGGCGGCCAAAGCGGAATTAATTTTTTATATGGGGA
CTGGAGCGCTGAAAAGTTGTTTCTGACCAGGCTCTAATGAGAAATTCCTCTCTCCCCAGGTTATGAAGACAGTAT
GGAGTTTCCAGACCATAGTAGACATTGCTACAGTGTCTGAGCGAGCAGAGACACCAGGGTTTTCTTTGTGACTG
CACTGTTCTGGTGGGAGATGCCAGTTCCGAGCGCACCGAGCTGTACTGGCTTCATGCAGCATGTATTTCCACCT
CTTTTACAAGGACCAGCTGGACAAAAGAGACATTGTTTCATCTGAACAGCGACATTGTTACAGCCCCCGCTTTCGC
TCTCTGCTTGAATTCATGTATGAAGGGAACTCCAGTTCAAAGACTTGCCCATGAAGACGTGCTAGCAGCTGC
CAGTTATCTCCACATGTATGACATTGTCAAAGTCTGCAAAAAGAAGCTGAAAGAGAAAGCCACCACGGAGGCAGA
CAGCACCAAAAGGAAGAAGATGCTTCAAGTTGTTCCGACAAAAGTCGAGAGTCTCTCCGATGGCAGCAGCCACAT
AGCAGGCGATTGCCCCAGTGATGAAGATGAAGGAGAAGATGAAAAATTGAACATCCTGCCAGCAAAAAGGACTT
GGCGGCCGAGCCTGGGAACATGTGGATGCGATTGCCCTCAGACTCAGCAGGCATCCCCAGGCTGGCGGAGAGGC
AGAGCCACACGCCACAGCAGCTGGAAAAACAGTAGCCAGCCCCGTCAGCTCAACAGAGTCTTGTCCCAGAGGTC
TGTCACCTCCGTGAGGGATTCCGCAGATGTTGACTGTGTGCTGGACCTGTCTGTCAAGTCCAGCCTTTCAGGAGT
TGAAAATCTGAACAGCTCTTATTTCTCTTACAGGACGTGCTGAGAAGCAACCTGGTGCAGGTGAAGGTGGAGAA
AGAGGCTTCTGTGATGAGAGTGTGTTGGCACTAATGACTATGACATGGAACATAGCACTGTGAAAGAAAGTGT
GAGCACTAATAACAGGGTACAGTATGAGCCGGCCCATCTGGCTCCCCTGAGGGAGGACTCGGTCTTGAGGGAGCT
GGACCGGGAGGACAAAGCCAGTGATGATGAGATGATGACCCAGAGAGCGAGCGTGTCCAGGTGGAGGGAGGCAT
GGAGAGCAGTCTGCTCCCCTACGTCTCCAACATCCTGAGCCCCGCGGCCAGATCTTCATGTCCCCCTGTGCAA
CAAGGTCTTCCCCAGCCCCCACATCCTGCAGATCCACCTGAGCAGCACCTTCCGCGAGCAGGACGGCATCCGCAG
CAAGCCCCCGCCGATGTCAACGTGCCACGTGCTCGCTGTGTGGGAAGACTTTCTCTTGCAATGTACACCTCAA
GCGCCACGAGAGGACTCACTCGGGGAGAAGCCCTACACATGCACCCAGTGCGGCAAGAGCTTCCAGTACTCGCA
CAACCTGAGCCGCCATGCCGTGGTGCACACCCGCGAGAAGCCGCACGCCTGCAAGTGGTGCAGCGCAGGTTTAC
GCAGTCCGGGGACCTGTACAGACACATTTCGAAGTTCCACTGTGAGTTGGTGAACCTCTTGTCCGTCAAAAGCGA
AGCACTGAGCTTGCCCTACTGTACAGAGACTGGACCTTAGAAGATAGCTCTCAAGAACTTTGGAAATATTTTATAT
ATATATAAATAATATATATATATATACATATATATAAATAGATCTCTATATAGTTGTGGTACGGTCTAAAAGCAG
TCTTGTTTCTGGAATAAAAAGTTGGGATATTAAGTTGTTTTTGCACTTTAGAAATAGCATGAGAATCTCACTAA
TTAGCATTCTGATAAAAAGAACTTTAGAGCAAGTCAGAATAGAGAGGTGTTTTCTTTGAGGGGATAGGGGAA
GTAAGCCAATAAGAACCTTTTAAACAAATCGTCTGTACAAAATGCTTTTCATATGGCTTAATTTTGTCAACACT
GCATTGTCTTTTGTGCTCTTTTTTCCCCCCCCAACAAAGTTTTTTTGTTTTTTGTTTTTTTTTTAAAGTAGAAAT
CCCTCCAGTTTTATTAGCCTCTTTATATGTCTCAAATTCATGAATTTTTTCTGGCTGTTGGAAACCTGAATGCT
TTAGACCCAAATGGAAAATTTCTGAAATGCTGGATTATCTATTTTAAACAAGCAGTTGACTTAAACTTTCTG
TGGCAACTTCTGTTTTCTGACAGTTCCAGTGAGAGAAATGCTGAAAGTACACTGGGATCACTGGGACACTGTC
TTATGAAGGTTTGTGGGATGAAAAAGGATATTGCAGCTTCAGCAGTGTGAACTGTGTGTTTAAAAATGTGAA
TTACTGTTATTGTATACTGTAATTGATTACATGGGCTGGGGGGGTGTCAAAGAACTTGACAGGTTGTGTTGATGC
TCTTAGTTGAGTCTTGAAAAGTAATATTAACGCTACAGAAATGCATGAGTTTTCAATATATTTTTTGTCTTTGT
TTGCATTGTATAACTTTAACGAGTGAGTTTAAATATTTTAAATTCCTTAGAAAAATAGCACCATTGGAAAAAA
AAACTGGTGTATGAAGAACGTAAATGCAGTGTTTTTATTTTTATTTATATAATTTAAATTGACTTTCCCACTG
TCTTTAAGTTGAACTGTAAAGCTGAATAAAAACCTAAGCTGCAAAATGATAACTTCGCTACATAACAAGGAAAA
TATAAATGTTTACAAAACAGCTTAAAGATTGCATGTGCAGTGTGCATTTATAACAACTTCTAATTGCACAAAAC
CCATGCCAGCTCAGAGTTAGGTGTACACATTTACCCAGTTGAGCGTCTTAGAATAACTACTGCACAAGTTGAC
AATAGGTGCTTCTCTCTTTTTTTTTTGTGCTCCCTTTTCTTTTTCTCCCTTCCCTTACCCTCCCTCCCTT
ACTCTCCCCCCCCACCACCACCTCCACCCCAACTCATGAAAAGATTCTATGGACTGAAAAAGCCCCAGGCTGA
AAGGACTGGACTGCCTTGATTGACATGGGGAAGGGGTTAGTAGACTATGTGGATTGCGGCAGCAGAGGCTGCAG
CCTAACGTGTGGTTTTAATGACCAGCACGCAAGGCAAAAGCATTTTGACAGTGTGTTTTCTGTCTGCACT

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FIGURE 1006B

TACAAATAAGGTCTATGGGAGTAGCATGGAAAACGTTTGCTGTTTTTCCCTTTTTTTTTTAATTGCTTTTGTTTA
AAATTTGATCGCCTTAACTACTGTAAACATAGCCTATTTTTGTGCTTAAGATACTGAATGGAAAACCTCCATTGTG
TGTGCTGGACTGTTTTGGAAATATTTGGTTAAATGTGTGTTAATTTGGCTGTAATGGCATTAAAGCAAACAAA
CAAACAAAAAAGCTGTGAAAATGGCCTTGGAGCATTATCTTTAGTTACTTGAAGAGTTTCTAGTTTTTTTAAAA
TACAGTTTATGTTAAAATAATTTTTATTAATTTAGAGAAGACAATCAATGTCTGTGAGAAAACGGACTTCTTTT
GGATTTTCTTTTTGTGGTCATTGTGAGTGATTGCTTTTTCCCTTTCTTAGTTTCACATTCTTCCTTTGTTCTAAA
ACTTAGACTGACATCTAGCTTTGACAATCATAGTATGTTTTATTTTCCCTGAGGGGAATAACTTATAATGCTGTT
TAGTTTTGTACTATTGGTGTGTTGGTGAATTTTTAACTGTGTGCTAACTGCAATAAATTATATGAAGTGAAGAA
AA

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FIGURE 1007

MEFPDHSRHLQCLSEQRHQGFCDCTVLVGDAQFRAHRAVLASCSMYFHLFYKDQLDKRDIVHLNSDIVTAPAF
ALLEFMYEGKLQFKDLP IEDVLAASYLHMYDIVKVCKKKLKEKATTEADSTKKEEDASSCSDKVESLSDGSSH
IAGDLP SDEDEGEDEKLNILPSKRDLAAEPGNMWMRLPSDSAGIPQAGGEAEPHATAAGKTVASPCSSSTESLSQR
SVTSVRDSADVDCVLDLSVKSSLSGVENLNSSYFSSQDVLRNLVQVKVEKEASCDESDVGTNDYDMEHSTVKES
VSTNNRVQYEPAPHLAPLREDSVLRELDREDKASDDEMMTPESERVQVEGGMESSLLPYVSNILSPAGQIFMCPLC
NKVFPSPHILQIHLSTHFREQDGIRSKPAADVNVPTCSLCGKTFSCMYTLKRHERTHSGEKPYTCTQCGKSFQYS
HNLSRHAVVHTREKPHACKWCERRFTQSGDLYRHIRKFHCELVNLSVKSEALSLPTVRDWTLEDSSQELWK

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FIGURE 1008

GGCGTAAACCACTGCACGCAGCCTACCCCTCTGCCTTTTTTAAGATGATGTATTTATTTAATTTTGGCCATCATTGG
TGCTTCACCTTCCTGCGAAGGAAATTCCAGAGCCTGTATTTAAGCTACCTAGGCTTTTACACTCCCTTTATTGCC
TTTCCAAATAGTATCTCATTGGTGTACTCTAGTGTCTATACCTCTTGGAAACGAAAGAGGGCCCAACCTACAA
CTAAGAAGGGACAAACCTTGAACCTAAGTAAGACCTTACACACCCAGAAAGAACTGGGCCCTCCTTCTTCAGGG
ACAATGCAGTAGCCACTTGGCTTGTGGAATTTACTGAAGGCTATTTCTGTAACTTGCTAGTTAACTTAGTTTTG
TATTTAGGCAGAGGTGCGCTCTGTAATGTTGGGCCCTTGGACTTCACAGTACTGGAGAGCTGTTACACAGATGT
TTAGACCTTTCTCTCTCTCTCTCTTTCTCTTTCTCAACAACCTTTTACAGAGGCAGTCATTTTGAAAGGTG
AAATATTTGGCCTTTACCAAAGAGCTTTTTTTTTCTTTAAGCAAAATCCTTTCAGAAAGAAACAAATGGGGAAGG
GCAGATTAAAGATGCATATGTCCCAATCCACTTCTATAGGAGTTTAAATCATATTCACATGAGTAAATGATGGAA
GAACTCTTTAAGGTAATCCTTTGGGATAAAGGATCCTGGGAAGTTCTCTCAGGTAAAGAAAGCTTACAGCAGATT
TGTAATATATGTCTGGAGAGCTATTTATAAGAAATTTAAGAGGATTGTTTGTCTTTTAAAGATTTAAG
CCTTTTTACTTTGCAAAAAGAAAACACAAAAGTTTTATAGATATAACTTTGCTAATTTTTTAACTTTTCTGAA
ACGATTAGCTGTAGCCAAATTATGTGGTTACGTTTTGCTACATTAGAATTTGAAAATGCAATATGTGTGGTAAAT
CTACTGTTTGAAATTTATAATGGTCTCTGATATGATTGCAATTTTGGTAACTTTTGAAAGTTATTTTCCCCCTT
AGTCATGGATTTCTATTTGTTTTTAATGTTAATTTTTCTAGAAAGCATCTGAATTGACTAGGCTTTTCTATAT
AAAAAAGTCAAACTTGTTAACTCTGTACTTTAATAAAATTTAAATTTAACTGTGTGTTTTTCTCTCTG
CTAGATACATATATAATTAAAGTACTCAAGTTAGTTGTTTTGCAGAGATGTTGCCTTCAGATGTTAATCAGGTCT
CTCAAGTTTCATGGAGTCTATGCTGATCCTTTAATTGACAAATAAAAGATATATCTGTGGTGTGCAAC

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FIGURE 1009

GVNHCTQFTLCLFKMMYLFNFCHHWCF TFLRRKFQSLYLSYLGFYTPFIAFPNSISFGVL

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FIGURE 1010A

ACAATGTGGTCCCGAAGCGGCCAGCGCCGGGAGCTGCAGCGCTGAGACCCCCAGCCCCCCCCCTCGGGCTCCCGG
CCGGGGCCCCCATCATGTTCTCCAGGAAGAAACGAGAGCTCATGAAAACCCCTTCCATCTCGAAAAAGAACCGCGC
GGGAAGCCCCAGCCCGCAGCCCTCGGGGGAGCTGCCAGGAAGGATGGGGCTGACGCGGTGTTCCCCGGACCAAG
CCTGGAGCCGCCCGCTGGGTCTCCGGCGTCAAGGCCACAGGGACCCTCAAGCGGCCACCAGCCTGAGCCGCCA
CGCCAGCGCGGCTGGCTTCCCCCTGTGCGGTGCTGCCTCCTGGACACTGGGCCGGAGCCACCGGAGCCCCACTGAC
AGCCGCCAGCCCCGGGCGAGCTGCCACCGAGGGGTGCCGGCCCGGACGTCGTCGAGGACATCTCCCATCTGCTGGC
GGACGTGGCCCGCTTCGCTGAGGGCCTTGAGAAACTTAAGGAGTGTGTGTTGCGTGACGACCTCCTTGAGCCCCG
CCGCCCCGGGGCCACGAGTGCCTGGGTGAGGCTCTGCGTGTGTCATGCATCAGATCATCTCCAAGTACCCGCTGCT
GAACACCGTGGAGACGCTACCCGAGCCGCGACCCCTCATTGCCAAGGTCAAAGCCTTCCATTATGAGAGCAACAA
TGATCTGGAGAAACAGGAGTTCGAGAAGGCCCTGGAGACGATTGCTGTGGCCTTCAGTAGCACAGTGTCCGAGTT
CCTCATGGGTGAAGTGGACAGCAGCACCCTCCTAGCAGTGCCTCCTGGGGACTCGAGCCAGTCCATGGAAAGCCT
GTATGGACCGGGCAGTGAAGGCGACGCTCCAGCCTGGAAGACTGTGACGCCGGCTGCCTGCCCGCCGAGGAGGT
GGACGTGTGCTACAGCGCTGTGAGGGGGCGTGGATGCCGCACTGCTGTATGCCAAGAACATGGCCAAGTACAT
GAAGGACCTCATCAGCTACCTGGAGAAGCGGACGACGCTGGAGATGGAGTTTGCCAAGGGCCTGCAGAAGATCGC
TCACAACCTGCAGACAGAGCGTCATGCAGGAGCCCCACATGCCGCTCCTGTCCATCTACTCGCTGGCCCTGGAGCA
GGACCTGGAGTTCGGCCACAGCATGGTGCAGGCGGTGGGCACCTTGACAGCCAGACCTTCATGCAGCCCCCTGAC
CCTGCGGGCGCTTGAACACGAGAAGCGCAGGAAGGAGATCAAGGAGGCCTGGCACCGTGCCAGAGGAAGCTGCA
AGAGGCGGAGTCCAACCTGCGCAAGGCCAAGCAGGGTTACGTGCAGCGCTGCGAGGACCACGACAAGGCTCGCTT
CCTCGTGGCCAAGGCGGAGGAGGAGCAGGCTGGCAGCGCGCCGGGAGCAGGCAGCACGGCCACCAAGACCCTGGA
CAAGCGGGCGGCGCTGGAGGAGGAGGCCAAGAACAAGGCGGAGGAAGCTATGGCCACCTACCGCACCTGCGTGGC
CGACGCGAAGACGCAAGCAGGAGCTGGAGGATACCAAGGTGACGGCGCTGCGGCAGATCCAGGAGGTTCATCCG
GCAGAGCGACCAACCATCAAGTCGGCCACGATCTCCTACTACCAGATGATGCATATGCAGACGGCGCCGCTGCC
CGTGCACCTTCCAGATGCTGTGTGAGAGCAGCAAGCTGTATGACCCAGGCCAGCAGTACGCCTCCACGTGCGCCA
GCTGCAGCGGGACCAGGAGCCCGATGTGCACTACGACTTTGAGCCCCACGTCTCCGCCAACGCTGGTCCCCCGT
CATGCGTGCCCGGAAGAGCAGCTTCAACGTGAGTGATGTGGCGCGGCCGAGGCTGCCGGGAGCCCCCAGAAGA
AGGCGGGTGCACTGAGGGCACACCTGCCAAGGACCACAGGGCCGGGCGAGGACACCAGGTTACAAGTCATGGCC
GCTCTCGATCTCAGACTCGGACAGTGGGCTGGACCCCGGCCCTGGCGCAGGGGACTTTAAGAAAGTTCGAGCGGAC
GTCATCCAGTGGTACCATGTCTGTCACGGAGGAGCTGGTGGACCCAGACGGTGGAGCCGGGGCTTCAGCCTTTGA
GCAGGCTGACCTCAACGGCATGACCCCCGAGCTGCCGGTGGCCGTGCCAGTGGACCGTTCCGCCACGAGGGGCT
GTCCAAGGCGGCGCGTACTACCGGCTCCGGAAGCTCCGCACGCCGCCAAGTGCCGCGAGTGCAACAGCTACGT
CTACTTCCAGGGTGTGAGTGTGAAGAGTGTGCTTGGCCTGCCACAAGAAATGTCTGGAGACGCTGGCCATACA
GTGCGGGCACAAGAAGCTGCAAGGCCGCTGCAGCTGTTTCGGCCAGGACTTCAGCCACGCGGCCCGCAGCGCCCC
CGACGGCGTGCCCTTCATCGTCAAGAAGTGCGTCTGCGAGATCGAGCGGGCGGCGCTGCGCACCAAGGGCATCTA
CCGGGTCAATGGGGTAAAGACACGCGTGGAGAAGCTGTGCCAGGCCTTCGAGAACGGCAAGGAGCTGGTCGAGCT
GTCGACGGCCTCGCCCCACGACATCAGCAACGTCTCAAGCTCTACCTGCGTCAGCTTCCCGAGCCGCTCATCTC
CTTCCGCCTCTIACCACGAGCTCGTAGGGCTGGCCAAGGACAGCCTGAAGGCAGAGGCCGAGGCCAAGGCGGCGTC
CCGGGGCCGGCAGGACGGCTCGGAGAGCGAGGCGAGTGGCGGTGGCCCTGGCAGGTGCGCTGCGGGAGCTCCTGCG
GGACCTGCCGCTGAGAACC GGCCCTCGCTGCAGTACCTGCTGCGTCACCTACGCAGGATCGTGGAGGTGGAGCA
GGACAACAAGATGACCCCCGGGAACCTGGGCATCGTGTTCCGGCCACGCTGCTTCGGCCACGGCCACCAGAGGC
CACCCTGTCCCTCTCCTCCCTGGTGGATTATCCCATCAGGCCCGGCTCATCGAGACTCTCATCGTCCACTACGG
CCTGGTCTTCGAGGAGGAGCCGGAGGAGACCCCCGGGGGCCAGGACGAGTCAATCAACAGCGAGCTGAGGTAGT
CGTCCAGGTGCCGTACCTGGAGGCGGGCGAGGCGGTGGTCTACCCGCTGCAGGAGGCGGCGGCGGACGGGTGCA
AGAATCCCGAGTTGTGTCCAACGATTTCGGACTCGGACCTAGAGGAGGCTCCGAGCTGCTGTCTCATCGGAGGC
CAGTGCCCTGGGCCACCTCAGCTTCTGGAGCAGCAGCAGAGCGAGGCCAGCTAGAGGTGGCTTCTGGCAGCCA
CAGCGGCAGTGAGGAGCAGCTGGAGGCCACAGCCCGGAGGACGGGGACGGGGACGAGGACGGCCCGGCCAGCA
GCTCTCAGGATTCAACACCAACCAGTCCAACAACGTGCTGCAGGCCCCACTGCCCCCATGAGGCTCCGTGGCGG
GCGGATGACACTGGGCTCCTGCAGGGAAAGGCAGCCGGAATTCGTGAGCTGGGGTGGGGCTGGGACACAGGT
GGCTTCTCTCTTGCCTGCTCCTGTCCCTCCAGCACGTCCCCTGCACCACGGCATAGCTTAGGTGCGCCGTCTCG

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FIGURE 1010B

GGTCGCTGCCGAGAGCGCCTGGACTTCGACGTCCCACCAGCGGGCGCCTCCTCCCAGAGGCTTCCAGGAGCACGA
GGGCCTTGCGGCACAGGACTGTGCCCTGTGCTGTCCCTGCACCCGGCTCAGCTGAGCTGGGGAACACTGCTGT
CGTGTGAAGTCACAGTGGCCTTGTTGGTGCCACAGGGCTGTGTGGATGGAGGAAGCTGTCCCTGCCCAGTGCAT
CCCCCAGGTCATCACGGGGACGCAGGAGGCAGGCCCTGCCCTGCCCTCTCCTCACAGGTCTGTTGCAGGGACTCC
AGAAACCATTCTGGGAGCCGTGGATGGGGCGGAGCTGGGGTTTGGTGCAGTTTCCAGGGTGCAGTACAGCAGGG
CCTGAATACTGGCCCTGGACTCCCTTTTCCAGAACACCAGGTGTGGCCACCTGGGGCTCAGGTACACAGTGGGGT
CTCTCGGAAGCCACCGTGTGGTTCTTTCACAGGCACGTTTATTTTGCTGAAATAAAAAGTTTTAATCGGG

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FIGURE 1011

QCGPEAASAGSCSAETPSPPPRAPGRGPIMFSRKKRELMKTPSISKKNRAGSPSPQPSGELPRKDGADAVFPGPS
LEPPAGSSGVKATGTLKRPTLSRHASAAGFPLSGAASWTLGRSHRSPLTAASPGELPTEGAGPDVVEDISHLLA
DVARFAEGLEKLKECVLRDDLLLEARRPRAHECLGEALRVMHQIISKYPLLNTVETLTAAGTLIAKVKAHYESNN
DLEKQEFKALETIAVAFSSTVSEFLMGEVDSSTLLAVPPGDSSQSMESLYGPGSEGTPPSLED CDAGCLPAEEV
DVL LQRCEGGVDAALLYAKNMAKYMKDLISYLEKRTTLEMEFAKGLQKIAHNCRQSVMQEPHMPLLSIYSLALEQ
DLEFGHSMVQAVGTLQTQTFMQPLTLRRLEHEKRRKEIKEAWHRAQRKLQEAESNLKAKQGYVQRCEHDHKARF
LVAKAEQQAGSAPGAGSTATKTLDKRRRLEEEAKNKAEEAMATYRTCVA DAKTQKQELEDTKV TALRQIQEVIR
QSDQTIKSATISYYQMMHMQTAPLPVHFQMLCESSKLYDPGQQYASHVRQLQRDQEPDVHYDFEPHVSANAWSPV
MRARKSSFNVSDVARPEAAGSPPEEGGCTEGTPAKDHRAGRQVHKSWPLSISDSDSGLDPGPGAGDFKKFERT
SSSGTMSSTEELVDPDGGAGASAFEQADLNGMTPELPVAVPSGPFRRHEGLSKAARTHLRKLRTPAKCRECNSYV
YFQGAEECCCLACHKKCLETLAIQCGHKKLQGRQLQFGQDFSHAARSAPDGVFFIVKKCVCEIERRALRTKGIY
RVNGVKTRVEKLCQAFENGKELVELSQASPHDISNVLKLYLRQLPEPLISFRLYHELVGLAKDSLKAEAEAKAAS
RGRQDGSESEAVAVALAGRLRELLRDLPPENRASLQYLLRHLRRIVEVEQDNKMTPGNLGIVFGFTLLRPRPTEA
TVSLSSLVDYPHARVIETLIVHYGLVFEEPEETPGGQDESSNQRAEVVVQVPYLEAGEAVVYPLQEAADGCR
ESRVVSNDSDSDLEEASELLSSSEASALGHLSFLEQQQSEASLEVASGSHSGSEEQLEATAREDGDGDEDGPAQQ
LSGFNTNQSNNVLQAPLPPMRLRGGRMTLGSCRERQPEFV

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FIGURE 1012

GGCACGAGGGAGAAGTCTCAGTTTTTTTTTTTTTTTTTTAGGTGAGAAAGCCAGCTGACTTTATTGCTCTG
GGGGCAGGGGGCTCAGGAGCTCTTGGTGGGGCGGGTCCGCTTCCTCTTCACCATCACAGGCTTCTGGCTGCCGAG
GATGGCGCTGGCCCTGCGGATGGCTGCCATGCGCAGGTCGGGGCGGTACTTGTTCTTGCGGATCATGTGTCTGAT
GCTGCTGAGCGTGGCGCGAGCATTCTTGTGTGATGGTGGTCCGCACATAGGAGGTGGCAGGCTTCGCTGGCCGGA
TCTCCGCTTAATGACCACCACGACACCTTTGCCGTGGCTGCCGGCTCCACGCCCACAGTCTGCGGTGAATCAG
TCCGTTGTAGCGGAAGGAATTGCGGGCCTTCAAGTTATTGGGCTCAGTGCTGTAGGTCTGCTTATTCTCTTGAT
CAGGAACTGGAGCAGTTCGCGACGACCATCCATTGCAGATGCGCAGACATGGCGGGCGGCTCCCTTCGCAGCGGC
GACCTGACCTTCAGCGCCTCGGCTCCAGCGCCATGCGCGCCCTCCAGGAAGTTCTTCGTTGGGGGAACTGGAAGA
TGAACGGGCGGAAGCAGAGTCTGGGGGAGCTCATCGGCACCTGTAACGCGGCCAAGGTGCCGGCCGACACCGAGG
TGGTTTGCTCCCCCTACTGCCTATATCGACTTCGCCCCGGCAGAAGCTAGATCCCAAGATTGCTGTGGCTGCGC
AGAAGTGTACAAAGTGACTAATGGGGCTTTTACTGGGGAGATCAGCCCTGGCATGATCAAAGACTGCGGAGCCA
CGTGGGTGGTCTGGGGCACTCAGAGAGAAGGCATGTCTTTGGGGAGTCAGATGAGCTGATTGGGCAGAAAGTGG
CCCATGCTCTGGCAGAGGGACTCGGAGTAATCGCCTGCATTGGGGAGAAGCTAGATGAAAGGGAAGCTGGCATCA
CTGAGAAGGTTGTTTTCGAGCAGACAAAGGTCATCGCAGATAACGTGAAGGACTGGAGCAAGGTCGTCTGGCCT
ATGAGCCTGTGTGGGCCATTGGTACTGGCAAGACTGCAACACCCCAACAGGCCCAGGAAGTACACGAGAAGCTCC
GAGGATGGCTGAAGTCCAACGCTCTGATGCGGTGGCTCAGAGCACCCGTATCATTATGGAGGCTCTGTGACTG
GGGCAACCTGCAAGGAGCTGGCCAGCCAGCCTGATGTGGATGGCTTCCTTGTTGGGTGGTGTCTCCCTCAAGCCCG
AATTTCGTGGACATCATCAATGCCAAACAATGAGCCCCATCCATCTTCCCTACCCTTCCTGCCAAGCCAGGGACTA
AGCAGCCCAGAAGCCCAGTAACTGCCCTTTCCCTGCATATGCTTCTGATGGTGTCTGTCTCTCTCTGTGGCC
TCATCCAAACTGTATCTTCCCTTACTGTTTATATCTTCACCCGTGAATGGTTGGGACCAGGCCAATCCCTTCTCC
ACTTACTATAATGGTTGGAATAAACGTCACCAAGGTGGCTTCCTTGGCTGAGAGATGGAAGGCGTGGTGGGA
TTTGCTCCTGGGTTCCCTAGGCCCTAGTGAGGGCAGAAGAGAAACCATCCTCTCCCTTCTTACACCGTGAGGCCA
AGATCCCCTCAGAAGGCAGGAGTGTGCCCTTCCCATGGTGGCCGTGCCTCTGTGCTGTGTATGTGAACACCC
ATGTGAGGGAATAAACCTGGCACTAGGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1013

MAPSRKFFVGGNWKMNQRKQSLGELIGTLNAAKVPADTEVVCAPPTAYIDFARQKLDPKIAVAAQNCYKVTNGAF
TGEISPGMIKDCGATWVVLGHSERRHVFGESDELIGQKVAHALAEGLGVIACIGEKLDEREAGITEKVVFEQTKV
IADNVKDWSKVVLAYEPVWAIGTGKTATPQQAQEVHEKLRGWLKSNVSDAVAQSTRIIYGGSVTGATCKELASQP
DVDGFLVGGASLKPEFVDIINAKQ

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FIGURE 1014A

ATGGCCAAGTATGGAGAACATGAAGCCAGTCTGACAATGGGCAGAACGAATTCAGTGATATCATTAAAGTCCAGA
TCTGATGAACACAATGACGTACAGAAGAAAACCTTTACCAAATGGATAAATGCTCGATTTTCAAAGAGTGGGAAA
CCACCCATCAATGATATGTTACAGACCTCAAAGATGGAAGGAAGCTATTGGATCTTCTAGAAGGCCTCACAGGA
ACATCACTGCCAAAGGAACGTGGTTCCACAAGGGTACATGCCTTAAATAACGTCAACAGAGTGCTGCAGGTTTTA
CATCAGAACAATGTGGAATTAGTGAATATAGGGGGAACGTGACATTGTGGATGGAAATCACAACTGACTTTGGGG
TTACTTTGGAGCATCATTTTGCCTGGCAGGTGAAAGATGTCATGAAGGATGTCATGTCGGACCTGCAGCAGACG
AACAGTGAGAAGATCCTGCTCAGCTGGGTGCGTCAGACCACCAGGCCCTACAGCCAAGTCAACGTCTCAACTTC
ACCACCAGCTGGACAGATGGACTCGCCTTTAATGCTGTCTCCACCGACATAAACCTGATCTCTTCAGCTGGGAT
AAAGTTGTCAAAATGTCCCAATTGAGAGACTTGAACATGCCTTCAGCAAGGCTCAAACCTATTGGGAATTGAA
AAGCTGTTAGATCCTGAAGATGTTGCCGTTTCGGCTTCTGACAAGAAATCCATAATTATGTATTTAACATCTTTG
TTTGAGGTGCTACCTCAGCAAGTCACCATAGACGCCATCCGTGAGGTAGAGACACTCCCAAGGAAATATAAAAAA
GAATGTGAAGAAGAGGCAATTAATATACAGAGTACAGCGCTGAGGAGGAGCATGAGAGTCCCCGAGCTGAAACT
CCCAGCACTGTCAGTGGTTCGACATGGATCTGGACAGCTATCAGATTGCGTTGGAGGAAGTGCTGACCTGGTTG
CTTTCTGCTGAGGACACTTTCCAGGAGCAGGATGATATTTCTGATGATGTTGAAGAAGTCAAAGACCAGTTTGCA
ACCCATGAAGCTTTTATGATGGAACTGACTGCACACCAGAGCAGTGTTGGGCAGCGTCTGCAGGCAGGCAACCAA
CTGATAACACAAGGAACCTGTGCAGACGAAGAAGATTTGAGATTGAGGAACAGATGACCTGCTGAATGCTAGA
TGGGAGGCTCTTAGGGTGGAGAGTATGGACAGACAGTCCCGGCTGCACGATGTGCTGATGGAACTGCAGAAGAAG
CAACTGCAGCAGCTCTCCGCTGGTTAACTCACAGAGGAGCGCATTGAGAAGATGGAACCTGCCCCCTGGAT
GATGATGTAAATCTCTACAAAGCTGCTAGAAGAACATAAAAGTTTGCAAAGTGATCTTGAGGCTGAACAGGTG
AAAGTAAATTCATACTCACATGGTGGTCATTGTTGATGAAAACAGTGGTGAGAGCGCTACAGCTATCCTAGAA
GACCAGTTACAGAACTTGGTGAGCGCTGGACAGCAGTATGCCGTTGGACTGAAGAACGCTGGAATAGGTTACAA
GAAATCAATATATTGTGGCAGGAATTATTGGAAGAACAGTGCTTGTGAAAGCTTGGTTAACCGAAAAAGAAGAG
GCTTTAAATAAAGTCCAGACAAGCAACTTCAAAGACCAAAAGGAATAAGTGTAGTGTTGACGCTCTGGCTATT
TTGAAGGAAGACATGGAATGAAGCGTCAAACATTGGATCAGTGAGTGAGATTGGCCAGGATGTGGGACAATTA
CTTGATAATTCAGGCATCTAAGAAGATCAACAGTGAAGTCAAGGAACTGACTCAAAGATGGGATTCTTTGGTT
CAGAGACTAGAAGATTCTTCAACCAGGTGACTCAGGCTGTAGCAAAGCTGGGGATGTCTCAGATTCTCAGAAAG
GACCTTTTGGAGACTGTTGCTAAGAGAACAAGCAATTACAAAAAATCTAAGCAGGAACGCTCTCTCTCTCT
CCCCAAAGAAGAGACAGATCCATGTGGATATTGAAGCTAAGAAAAAGTTTGATGCTATAAGTGACAGAGCTGTTG
AACTGGATTTTGAATGGAAGTGGCAATTCAGACCACAGAGATAAAAGAGTATATGAAGATGCAAGACACTTCC
GAAATGAAAAAGAGTTGAAGGCATTAGAAAAAGAACAGAGAGAAAGATCCCCAGAGCAGATGAATTAACCAA
ACTGGACAAATCCTTGTGGAGCAATGGGAAAAGAGGCCTTCTACTGAAGAAATAAAAAATGTTCTGGAGAAG
GTTTCATCAGAATGGAAGAATGATCTCAACATTGGAAGATCTAGAAAGAAAGATTGAGCTACAGGAAGATATA
AATGCTTATTTCAAGCAGCTTGATGAGCTTGAAGAGTTCATCAAGACAAAGGAGGAGTGGGTAACACACTTCC
ATTTCTGAATCTTCCCGGAGTCTTGCCTGCAAGCTTGAAGGATTCCTGTCAGCGGGAATTGACAAATCTTCTGGC
CTTACCCCCAAATGAAATGGCTCGTGCAAGCTGCTCGGCCCTGATGTCTCAGCCTTCTGCCCCAGATTTTGTG
CAGCGGGGCTTCGATAGCTTTCTGGGCCGCTACCAAGCTGTACAAGAGGCTGTAGAGGATCGTCAACAACATCTA
GAGAATGAACTGAAGGGCCAACCTGGACATGCATATCTGGAACATTGAAACACTGAAAGATGTGCTAAATGAT
TCAGAAAAATAAGGCCAGGTGTCTCTGAATGTCTTAATGATCTTGCCAAGGTGGAGAAGGCCCTGCAAGAAAAA
AAGACCCCTTGATGAAATCCTTGAGAATCAGAAACCTGCATTACATAAACTTGCAGAAGAAACAAAGGCTCTGGAG
AAAAATGTTTCATCCTGATGTAGAAAAATTATATAAGCAAGAATTTGATGATGTGCAAGGAAAGTGAACAAGCTA
AAGGCTTGGTTTTCCAAAGATCTACATTTGCTTGAGGAAATTGCTCTCACACTCAGAGCTTTTGAGGCCGATTCA
ACAGTCATTGAGAAGTGGATGGATGGCGTGAAAGACTTCTTAATGAAACAGCAGGCTGCCAAGGAGACGACGCA
GGTCTACAGAGGCACTTAGACAGTGTCTGCAATTTGTTAATGAAATAGAAACAATTGAATCATCTCTGAAAAAC
ATGAAGGAAATAGAGACTAATCTTGAAGTGGTCCAGTTGCTGGAATAAAACTTGGGTGCAGACAAGACTAGGT
GACTACCAAACTCAACTGGAGAACTTAGCAAGGAGATCGCTACTCAAAAAGTAGGTTGTCTGAAAGTCAAGAA
AAAGCTCGCAACCTGAAGAAAGACTTGGCAGAGATGCAGGAATGGATGACCCAGGCCGAGGAAGAATATTGGAG
CGGGATTTTGAATACAAGTCACCAGAAGAGCTTGAGAGTGCTGTGGAAGAGATGAAGAGGGCAAAAGAGGATGTG
TTGCAAGAGGAGGTGAGAGTGAAGATTCTCAAGGACAACATCAAGTTATTAGCTGCCAAGGTGCCCTCTGGTGGC

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FIGURE 1014B

CAGGAGTTGACGCTCTGAGCTGAATGTTGTGCTGGAGAATTACCAACTTCTTTGTAATAGAATTCGAGGAAAGTGC
CACACGCTAGAGGAGGTCTGGTCTTGTGGATTGAACTGCTTCACTATTGGATCTTGAACTACCTGGTTAAAC
ACTTTGGAGAGCGGATGAAGAGCACAGAGGTCTGCGCTGAGAAGACGGATGCTGTCAACGAAGCCCTGGAGTCT
CTGGAATCTGTTCTGCGCCACCCGGCAGATAATCGCACCCAGATTGAGAGCTTGGCCAGACTCTGATTGATGGG
GGGATCCTGGATGATATAATCAGTGAGAACTGGAGGCTTTCAACAGCCGATATGAAGATCTAAGTCACCTGGCA
GAGAGCAAGCAGATTTCTTTGAAAAGCAACTCCAGGTGCTGCGGAAACTGACCAGATGCTTCAAGTCTTGCAA
GAGAGCTTGGGGGAGCTGGACAAACAGCTCACCACATACCTGACTGACAGGATAGATGCTTTCCAAGTTCACAG
GAAGCTCAGAAAATCCAAGCAGAGATCTCAGCCCATGAGCTAACCTAGAGGAGTTGAGAAGAAATATGCGTTCT
CAGCCCCTGACCTCCCCAGAGAGTAGGACTGCCAGAGGAGGAAGTCAGATGGATGTGCTACAGAGGAAACTCCGA
GAGGTGTCCACAAAGTTCAGCTTTTCCAGAAGCCAGCTAACTTCGAGCAGCGCATGCTGGACTGCAAGCGTGTG
CTGGATGGCGTGAAAGCAGAACTTCAGTCTTGGATGTGAAGGACGTAGACCCTGACGTCATACAGACGCACCTG
GACAAGTGTATGAACTGTATAAACTTTGAGTGAAGTCAAAGTGAAGTGGAACTGTGATTAAACAGGAAGA
CATATTGTCCAGAAACAGCAACCGGACAACCCAAAAGGGATGGATGAGCAGCTGACTTCCCTGAAGGTTCTTTAC
AATGACCTGGGCGCACAGGTGACAGAAGGAAAACAGGATCTGGAAAGAGCATCACAGTTGGCCCGGAAAATGAAG
AAAGAGGCTGCTTCTCTCTCTGAATGGCTTTCTGCTACTGAACTGAATTGGTACAGAAGTCCACTTCAGAAGGT
CTGCTTGGTGACTTGGATACAGAAATTTCTGGGCTAAAAATGTTCTGAAGGATCTGGAAGAGAGAAAAGCTGAT
TTAAATACCATCACAGAGAGTAGTGCTGCCCTGCAAACTTGATTGAGGGCAGTGAGCCTATTTAGAAGAGAGG
CTCTGCGTCTTAACGCTGGGTGGAGCCGAGTTCGTACCTGGACTGAAGATTGGTGAATACCTTGATGAACCAT
CAGAACAGCTAGAAATATTTGATGGGAACGTGGCTCACATAAGTACCTGGCTTTATCAAGCTGAAGCTCTATTG
GATGAAATTGAAAAGAAACCAACAAGTAAACAGGAAGAAATTGTGAAGCGTTAGTATCTGAGCTGGATGATGCC
AACCTCCAGGTTGAAAATGTCCGCGATCAAGCCCTTATTTTGATGAATGCCCGTGAAGCTCAAGCAGGGAGCTT
GTAGAACCAAAGTTAGCTGAGCTGAATAGGAACTTTGAAAAGGTGTCTCAACATATCAAAAGTGCCAAATTGCTA
ATTGCTCAGGAACCATTTATACCAATGTTTGGTCAACACTGAAACATTTGAACTGGTGTGCTTTCTCTGACTTG
GAAAAATTAGAAAATGACATAGAAAATATGTTAAATTTGTGGAAAAACACTTGAATCCAGTGATGAAGATGAA
AAGATGGATGAGGAGAGTGCCAGATTGAGGAAGTTCTACAAGAGGAGAAGAAATGTTACATCAACCTATGGAA
GATAATAAAAAGAAAAGATCCGTTTGCAATTATTACTTTTGCACTAGATACAACAAAATTAAGGCAATCCCT
ATTCAACAGAGGAAAATGGGTCAACTTGCTTCTGGAATTAGATCATCACTTCTTCTACAGATTATCTGGTTGAA
ATTAACAAAATTTTACTTTGCGATGGATGATGTTGAATTATCGCTTAATGTTCCAGAGCTCAACACTGCTATTTAC
GAAGACTTCTCTTTTCAAGGAAGACTCTCTGAAGAATATCAAGACCAACTGGACAACTTGGAGAGCAGATTGCA
GTCATTATGAAAAACAGCCAGATGTCATCCTTGAAGCCTCTGGACCTGAAGCCATTGAGATCAGAGATACACTT
ACTCAGCTGAATGCAAAATGGGACAGAATTAATAGAATGTACAGTGATCGGAAAGGTTGTTTTGACAGGGCAATG
GAAGAATGGAGACAGTTCCATTGTGACCTTAATGACCTCACACAGTGGAACAGAGGCTGAAGAATTACTGGTT
GATACCTGTGCTCCAGGTGGCAGCCTGGACTTAGAGAAAGCCAGGATACATCAGCAGGAACCTTGAGGTGGGCATC
AGCAGCCACCAGCCAGTTTTGAGCACTAAACCGAACTGGGGATGGGATTGTGCAGAACTCTCCAGGCAGAT
GGAAGCTTCTTGAAAGAAAACTGGCAGGTTTAAACCAACGCTGGGATGCAATTGTTGCAGAACTGAAGGATAGG
CAGCCAAGGCTAAAAGGAGAAAGTAAGCAGGTGATGAAGTACAGGCATCAGCTAGATGAGATTATCTGTTGGTTA
ACAAAGGCTGAGCATGCTATGCAAAAGAGATCAACCACCGAATTGGGAGAAAACCTGCAAGAAATTAAGAGACTTA
ACTCAAGAAATGGAAGTACATGCTGAAAACTCAAATGGCTGAATAGAACTGAATTGGAGATGCTTTTCAAGATAAA
AGTCTGAGTTTACCTGAAAGGGATAAAATTTAGAAAAGCTTAAGGACTGTAAATATGACATGGAATAAGATTGTC
AGAGAGGTGCTTACCACCTGAAGGAATGCATCCAGGAGCCAGTCTGTTTACAGACAAGGATTGCTGCTCAT
CCTAATGTCCAAAAGGTGGTGTAGTATCATCTGCGTCAGATATCTGTTTCACTCTCATCTGACTTCGGAAT
TCAATTCCTGCTGATCTTGATAAACTATAACAGAACTAGCCGACTGGCTGGTATTAATCGACCAGATGCTGAAG
TCCAACATTGTCACTGTTGGGGATGTAGAAGAGATCAATAAGACCGTTTCCCGAATGAAAATTACAAAGGCTGAC
TTAGAACAGCGCCATCCTCAGCTGGATTATGTTTTTACATTGGCACAGAATTTGAAAAATAAGCTTCCAGTTCA
GATATGAGAACAGCAATTACAGAAAAATTTGAAAAGGGTCAAGAACCAGTGGGATGGCAGCCAGCATGGCGTTGAG
CTAAGACAGCAGCAGCTTGAGGACATGATTATTGACAGTCTTCACTGGGATGACCATAGGGAGGAGACTGAAGAA
CTGATGAGAAAATATGAGGCTCGACTCTATATTCTCAGCAAGCCCGACGGGATCCACTCACCACAAATTTCT
GATAACCAAATACTGCTTCAAGAACTGGGTCTGGAGATGGTATCGTCATGGCGTTCGATAACCTCTGCAGAAA

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FIGURE 1014C

CTCCTGGAGGAATATGGGAGTGATGACACAAGGAATGTGAAAGAAACCACAGAGTACTTAAAAACATCATGGATC
AATCTCAAACAAAGTATTGCTGACAGACAGAACGCCTTGGAGGCTGAGTGGAGGACGGTGCAGGCCTCTCGCAGA
GATCTGGAAAACCTTCTGAAGTGGATCCAAGAAGCAGAGACCACAGTGAATGTGCTTGTGGATGCCTCTCATCGG
GAGAATGCTCTTCAGGATAGTATCTTGGCCAGGGAACCTCAAACAGCAGATGCAGGACATCCAGGCAGAAATTGAT
GCCCACAATGACATATTTAAAAAGCATTGACGGAAACAGGCAGAAGATGGTAAAAGCTTTGGGAAATTCTGAAGAG
GCTACTATGCTTCAACATCGACTGGATGATATGAACCAAAGATGGAATGACTTAAAAGCAAATCTGCTAGCATC
AGGGCCCCATTGGAGGCCAGCGCTGAGAAGTGAACAGGTTGCTGATGTCCTTAGAAGAACTGATCAAATGGCTG
AATATGAAAGATGAAGAGCTTAAGAAACAAATGCCTATTGGAGGAGATGTTCCAGCCTTACAGCTCCAGTATGAC
CATTGTAAGGCCCTGAGACGGGAGTTAAAGGAGAAAGAATATTCTGTCCTGAATGCTGTCGACCAGGCCCGAGTT
TTCTTGGCTGATCAGCCAATTGAGGCCCTGAAGAGCCAAGAAGAAACCTACAATCAAAAACAGAATTAACCTCT
GAGGAGAGAGCCCAAAGATTGCCAAAGCCATGCGCAAACAGTCTTCTGAAGTCAAAGAAAAATGGGAAAGTCTA
AATGCTGTAAGTACGAATTGGCAAAGCAAGTGGACAAGGCATTGGAGAACTCAGAGACCTGCAGGGAGCTATG
GATGACCTGGACGCTGACATGAAGGAGGCAGAGTCCGTGCGGAATGGCTGGAAGCCCGTGGGAGACTTACTCATT
GACTCGCTGCAGGATCACATTGAAAAAATCATGGCATTAGAGAAGAAATGCACCAATCAACTTTAAAGTTAAA
ACGGTGAATGATTTATCCAGTCAGCTGTCTCCACTTGACCTGCATCCCTCTCTAAAGATGTCTCGCCAGCTAGAT
GACCTTAATATGCGATGGAACCTTTTACAGGTTTCTGTGGATGATCGCCTTAAACAGCTTCAGGAAGCCACAGA
GATTTTGGACCATCCTCTCAGCATTTTCTCTTACGTACGTCCAGCTGCCGTGGCAAAGATCCATTTACATAAT
AAAGTGCCCTATTACATCAACCATCAAACACAGACCACCTGTTGGGACCATCCTAAAATGACCGAACTCTTTCAA
TCCCTTGCTGACCTGAATAATGTACGTTTTTCTGCTACCGTACAGCAATCAAATCCGAAGACTACAAAAGCA
CTATGTTTGGATCTCTTAGAGTTGAGTACAACAAATGAAATTTCAAACAGCACAAGTTGAACCAAATGACCAG
CTCCTCAGTGTTCCAGATGTCATCAACTGTCTGACAACAACCTTATGATGGACTTGAGCAAATGCATAAGGACCTG
GTCAACGTTCCACTCTGTGTTGATATGTGTCTCAATTGGTTGCTCAATGTCTATGACACGGGTCGAACCTGGA
ATTAGAGTGCAGAGTCTGAAGATTGGATTAATGTCTCTCTCAAAGGTCTCTTGAAGAAAAATACAGATATCTC
TTTAAGGAAGTTGCGGGGCCGACAGAAATGTGTGACCAGAGGCAGCTGGGCCTGTTACTTCATGATGCCATCCAG
ATCCCCCGGCAGCTAGGTGAAGTAGCAGCTTTTGGAGGCAGTAATATTGAGCCTAGTGTTCCGAGCTGCTTCCAA
CAGAATAACAATAAACCAGAAATAAGTGTGAAAGAGTTTATAGATTGGATGCATTTGGAACCACAGTCCATGGTT
TGGCTCCCAGTTTTACATCGAGTGGCAGCAGCGGAGACTGCAAAACATCAGGCCAAATGCAACATCTGTAAAGAA
TGTCCAATTGTGCGGTTTCAGGTATAGAAGCCTTAAGCATTTTAACTATGATGTCTGCCAGAGTTGTTTCTTTTCG
GGTCGAACAGCAAAAGGTACAAATTACATTACCCAATGGTGGAAATATTGTATACCTACAACATCTGGGGAAGAT
GTACGAGACTTCACAAAGGTACTTAAGAACAAGTTTCAGGTGGAAGAGTACTTTGCCAAACACCTCGACTTGGT
TACCTGCCTGTCCAGACAGTTCTTGAAGGTGACAACCTTAGAGACTCCTATCACACTCATCAGTATGTGGCCAGAG
CACTATGACCCCTCACAATCTCCTCAACTGTTTCATGATGACACCCATTCAAGAATAGAACAAATAGCCACACGA
CTGGCCCAGATGGAAAGGACTAATGGGTCTTTTCTCACTGATAGCAGCTCCACCACAGGAAGTGTGGAAGACGAG
CACGCCCTCATCCAGCAGTATTGCCAAACACTCGGAGGAGAGTCCCCAGTGAGCCAGCCGAGAGCCAGCTCAG
ATCCTGAAGTCAGTAGAGAGGGAAGAACGTGGAGAACTGGAGAGGATCATTGCTGACCTGGAGGAAGAACAAAGA
AATCTACAGGTGGAGTATGAGCAGCTGAAGGACCAGCACCTCCGAAGGGGGCTCCCTGTGCGTTACCGCCAGAG
TCGATTATATCTCCCCATCACACGCTCTGAGGATTGAGAACTTATAGCAGAAGCAAACTCCTCAGGCAGCACAAA
GGTCGGCTGGAGGCTAGGATGAGATTTTAGAAGATCAATAAACAGCTGGAGTCTCAGCTCCACCGCCTCCGA
CAGCTGCTGGAGCAGCCTGAATCTGATTCCCGAATCAATGGTGTTCCTCCATGGGCTTCTCCTCAGCATTCTGCA
CTGAGCTACTCGCTTGATCCAGATGCCTCCGGCCACAGTTCCACCAGGCAGCGGGAGAGGACCTGCTGGCCCCA
CCGCACGACACCAGCACGGATCTCACGGAGGTCATGGAGCAGATTACAGCACGTTTCCATCTTGCTGCCCAAAT
GTTCCACGACAGGCCACAGGCAATGTGA

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FIGURE 1015

MAKYGEHEASPDNGQNEFSDI IKSRSDEHNDVQKKTFTKWINARFSKSGKPPINDMFTDLKDGRKLLDLLEGLTG
TSLPKERGSTRVHALNNVNRVLQVLHQNNVELVNIGGTDIVDGNHKLTLGLLWSIILHWQVKDVMKDVMSDLQQT
NSEKILLSWVRQTTPYSQVNVNFTTSWTDGLAFNAVLHRHKPDLFSWDKVVKMSPIERLEHAFSKAQTYLGIE
KLLDPEDVAVRLPDKKSIIIMYLTSLFEVLPQQVTIDAIREVETLPRKYKKECEEEAINIQTAPEEEEHESPRAT
PSTVTEVDMDLDSYQIALEEVLTWLLSAEDTFQEQDDISDDVEEVKDQFATHEAFMMELTAHQSSVGSVLQAGNQ
LITQGTLSDEEEFEIQEQMTLLNARWEALRVESMDRQSRLHDVLMELQKKQLQQLSAWLTLTTEERIQKMETCPLD
DDVKSLOKLLLEEHKSLQSDLEAEQVKVNSLTHMVIVDENSSESATAILEDQLQKLGERWTAVCRWTEERWNRLO
EINILWQELLEEQCLLKAWLTEKEEALNKVQTSNFKDQKELSVSVRRILAILKEDMEMKRQTLQDQSEIGQDVQQL
LDNSKASKKINSSEELTQRWDSLQVRLDSSNQVTQAVAKLGMSQIPQKDLLETVRVREQAITKSKQELPPPP
PPKKRQIHVDIEAKKFDASAEELNWLKWKTAIQTTEIKEYMKMQDTSEMKKKLKALEKEQERERIPRADELNQ
TGQILVEQMGKEGLPTEEIKNVLEKVSSEWKNVSOHLEDLERKIQLEQEDINAYFKQLDELEKVIKTKEEWVKHTS
ISESSRQSLPSLKDSCQRELTNLLGLHPKIEMARASCALMSQPSAPDFVQRGFDSFLGRYQAVQEAVEDRQQHL
ENELKGQPGHAYLETTLKTLKDVLDNSENKAQVSLNVLDLAKVEKALQEKKTLDIILENQKPALHKLAEETKALE
KNVHPDVEKLYKQEFDDVQGWKWLKVLVSKDLHLLEEIALTLRAFEADSTVIEKWMGVKDFLMKQQAQGDGA
GLQRQLDQCSAFVNEIETIESSLNKMEIETNLRSGPVAGIKTWVQTRIGDYQTQLEKLSKEIATQKSRLSESQE
KAANLKKDLAEMQEWMTQAEEEYLERDFEYKSPEELESASVEEMKRAKEDVLQKEVRVKILKDNIKLLAAKVPSSG
QELTSELNVVLENYQLLCNRIRGKCHTLEEVWSCWIELLHYLDLETTWLNLTLEERMKSTEVLPEKTDVNEALES
LESVLRHPADNRTQIRELGQTLIDGGILDDI ISEKLEAFNSRYEDLSHLAESKQISLEKQLQVLRQMLQVQLQ
ESLGELDKQLTTYLTDRIDAFQVPQEAQKIQAEISAEHLTLEELRRNMRSQPLTSPESRTARGGSQMDVLQRKLR
EVSTKFQLFQKPANFEQRMLDCKRVLDGVKAELHVLVDKDVDPDVIQTHLDKCMKLYKTLSEVKLEVEVVIKTGR
HIVQKQTDNPKGMDEQLTSLKVLYNDLGAQVTEGKQDLERASQLARKMKKEAASLSEWLSATETELVQKSTSEG
LLGDLDTEISWAKNVLDLEKRRKADLNTITESSAALQNLIEGSEPILEERLCVNLNAGWSRVRTWTEDWCNTLMNH
QNQLEIFDGNVAHISTWLYQAEALLDEIEKKPTSKQEEIVKRLVSELDDANLQVENVRDQALILMNARGSSSREL
VEPKLAELNRNFEKVSQHIKSAKLLIAQEPLYQCLVTTETFTGVVPSDLEKLENDIENMLKFVEKHLESSDEDE
KMDEESAQIEEVLQRGEEMLHQPMEDNKKEKIRLQLLLLHTRYNKIKAIPIQQRKMGQLASGIRSSLLPTDYLV
INKILLCMDDVELSLNVPELNTAIYEDFSFQEDSLKNIKDQLDKLGEQIAVIHEKQPDVILEASGPEAIQIRDTL
TQLNAKWDRINRMYSDRKGCFDRAEEWRQFHCNDLNTQWITEAEELLV

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FIGURE 1016A

GCTGGCGGAGAGCGGCCTGCGGGCGATCGGGCCGAGCCTCGCTCAAGGAGCACCCCCGGGGCACCCCTCCTGTCCG
ATGGCAGCCCCGGCCCTGTCCAGGAATGTCGGTATGACGGTCTCTCAGAAAGGGGGTCCCCAGCCAACACCGAGCC
CGGCTGGCCCTGGGACGCAACTCGGACCAATCACAGGAGAGATGGATGAAGCCGATTCTGCGTTTTTAAATTTA
AGCAGACAGCTGATGACTCTCTGTCCCTTACATCTCCAAACACCGAGTCCATTTTTGTAGAAGATCCCTACACCG
CCTCGCTGAGGAGTGAGATTGAGTCAGACGGCCACGAGTTTGAAGCTGAGTCCTGGAGCCTCGCCGTGGATGCAG
CCTACGCCAAGAAGCAAAAGAGGGAGGTGGTGAAAAGACAAGATGTCTTTATGAGCTGATGCAGACAGAGGTGC
ACCACGTGCGGACGCTCAAGATCATGCTGAAGGTGTACTCCAGGGCCCTGCAGGAGGAGCTGCAGTTCAGCAGCA
AGGCCATTGGCCGCCTCTTCCATGCGCTGACGACCTGCTGGAGACGCACAGCCACTTCTCGCTCGGCTCAAGG
AGCGCCGCCAGGAGTCCCTGGAGGAGGGCAGTGACCGGAATTATGTCATCCAGAAAATCGGCGACCTCCTGGTTC
AGCAGTTTTCAGGTGAAAATGGGGAGAGAAATGAAAGAAAAGTACGGTGTGTTTTGTAGTGGCCACAATGAAGCTG
TTAGTCATTACAAGTTGCTGCTTCAGCAAAAACAAGAAATTTCAAACTTGATCAAGAAAATTGGCAACTTCTCCA
TCGTGCGCGCGCTTGGCGTGCAGGAGTGCATTCTCTGGTTACACAACGCATAACCAAATACCCAGTGTGGTGG
AGCGCATCATCCAGAACACGGAAGCTGGCACTGAGGACTATGAAGACCTGACCCAGGCCTTGAACCTCATCAAAG
ATATCATCTCACAAGTGGACGCCAAGGTCACTGAGTGTGAGAAGGGCCAGCGCCTCAGGGAGATCGCAGGGAAGA
TGGACCTGAAGTCTTCCAGCAAACTCAAGAACGGGCTCACCTTCCGAAGGAAGACATGCTTCAGCGGCAGCTCC
ACCTGGAGGGCATGCTATGCTGGAAGACCACATCAGGGCGCTTGAAGATATCCTGGCTATCTGCTGACCGACG
TACTTTTGTCTGTACAAGAAAAGATCAGAAATACGTCTTTGCTTCTGTGGACTCAAAGCCACCCGTCTATCTCGT
TACAAAAGCTCATCGTGAGGGAAGTGGCCAACGAGGAGAAAGCGATGTTTCTGATCAGCGCCTCCTTGCAAGGGC
CGGAGATGTATGAAATCTACACGAGCTCCAAAGAGGACAGGAACGCCTGGATGGCCACATCCAAAGGGCTGTGG
AGAGCTGCCCTGACGAGGAGGAGGGGCCCTTACGCTGCCGAAGAGGAAAGGAAGGTGGTCGAGGCCCGCGCCA
CGAGACTCCGGGACTTTCAAGAGCGGTTGAGCATGAAAGACAGCTGATCGCACAGAGCCTCTAGAGAAACAGC
AGATCTACCTGGAGATGGCCGAGATGGGCGGCTCGAAGACCTGCCCCAGCCCCGAGGCCTATCCGTGGAGGGG
ACCCATCCGAGACCCTGCAGGGGGAGCTAATTCTCAAGTGGCCATGAGCGAGATCGAGGGCATCCAGAGCCTGA
TCTGCAGGCGCTGGGCAGCGCCAACGGCCAGCGGAAGACGAGGAGCTCCACAGGCCCGCCAGGAGGGCTG
AGACCTTCGCGGGCTACGACTGCACAAACAGCCCCACCAAGATGGCAGTTTCAAGAAGAAAGTCAGCAGCACTG
ACCCAGGCCCGAGACTGGCGAGGCCCCCAACAGCCCCGACTTGAAGCTCAGTGACAGTGACATTCTGGGA
GCTCTGAGGAATCGCCGCAGGTGGTGGAGGCGCCAGGCACGGAATCCGATCCCCGTCTGCCACCCGTCTGGAGT
CGGAGCTTGTCCAGCGGATCCAGACACTGTCCAGCTGCTCCTGAACCTTCAGGCGGTAATCGCCACCAGGACA
GCTATGTGGAGACGCAGCGGGCTGCCATCCAGGAGCGGGAGAGCAGTTCGGCTGCAGTCGACGCGTGGGAACC
TGCTGCTGGAGCAGGAGCGGCAACGCAACTTCAGAGAAGCAGCGGGAGGAGCGCGCGGCCCTGGAGAAGCTGCAGA
GCCAGCTGCGGCACGAGCAGCAGCGCTGGGAGCGCGAGCGCCAGTGGCAGCACCAGGAGCTGGAGCGTGCAGGCG
CGCGGCTGCAGGAGCGCGAGGGCGAGGCGCGGCGAGCTACGCGAGCGGCTGGAGCAGGAGCGGGCCGAGCTGGAGC
GCCAGCGCCAGGCCCTACCAGCAGCACTTGGAGCGGCTGCGCGAGGCCCAGCGTGCCGTGGAGCGCGAGCGGGAGC
GCCTGGAGCTGCTGCGCCGCCTCAAGAAGCAGAACACCGCGCCAGGCGCGCTGCCGCCCGACACTGGCCGAGG
CCCAGCCCCCAAGCCACCCTCCAGCTTCAACGGGGAAGGGCTGGAGGGCCCTCGGGTGAGCATGCTGCCATCCG
GCGTGGGGCCAGGTACGCAGAGCGCCCCGAGGTGGCTCGCCGGGACAGCGCCCCACCGAGAGCCGGCTGGCCA
AGAGCGATGTGCCATCCAGCTGCTCAGCGCCACCAACCAGTTCCAGAGGAGGCGGCCGTGCAGCAGCAGATCC
CCACCAAGCTGGCGGCCTCCACCAAGGGTGGCAAGGACAAGGGCGGCAAGAGCAGGGGCTCTCAGCGCTGGGAGA
GCTCAGCGTCTTTCGACCTGAAGCAGCAGCTGCTGCTCAACAAGCTCATGGGGAAGATGAGAGCACCTCACGGA
ACCGCCGCTCGCTGAGCCCTATCCTGCCCGGAGACACAGTCTGCGCCCCACCGAGCCCTGGCTTCCCCGCC
CGAGCCCACCGCAGCTGACAGCCCTCCGAGGGCTTCTCTCAAGGCCGGGGGCACAGCCCTCCTGCCCGGCC
CCCCAGCTCCCTCGCCACTGCCGGCCACCACTCAGCGCCAAGGAGGACGCCAGCAAAGAAGACGTCTCTTCT
TCTAAAGGGCCGTGACTCAAGGAAAGTTTTTAATGAAAGTTGAGCCAGAACTAAACCAGGGAGCTGTCTGAAA
TCATAGCACCCCATCCGGGTGGCGGGGAGATCAACTCCGAGCTGTTTTCCGAGGCAGTGAGGAACGGTGCAGGC
TCTGCACGGAGCTGAGGACAGGACAGACCTTGCTTTGAGAAGGAGCTGCCGGCCGGGGCCACGCTCCACAGCCGC
CGCGGACAGTGGAGCCAAGGGTTAGGGCACAGGAGGGGCCAGGTGGCGTCCGCGAGCATCTGTCCCCAGAATCA
GGCAGAATCCACTTCCCAAACAGAGCCCCACGAGGTTACCATGAACCTCAGGGTCAGGGAATGAGCCAGGCAC
GGGGGCATGGGCAGAGAGGGCCACGGGGCAGGGCCCACTGAGGGAACATCAGTGGCCCTCCAGTCAGGTCTGTG

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FIGURE 1016B

GGTTTGGAAGCCCATCGTGAAAGGGGCTGACCTTTGCCCTTTTTACTTGGCATTGGTTTTGAAACCAGCTGTTT
CCCAAACTCTGCTTCCCAAGGGCAACCGTTGCTGTTACACGCTCAGCCTGTCTGGGGGAGCGGGCCTCTAGCTT
CAGCCAGGGCGGGTACACACCCTGGGCACAGGGTCCTCAGCCCCCGGGAATGAGCTCCAGGGCTGGCGTCCCA
CCTTCCAGGTGGGGGCTGGCACATCAGAGCTGTCGAGAGCGCCATGTCCAGGGCATGCAGAGGTTGCACCTAG
AGACGTTGCAGCAAGTGACAAGTGGCCGCTGTGCGGGCCCCCTCGCTTGTAGTGAGCTGTTGCAGCTTACGGTCC
GTTCCCTGGAGGGGTGGAGGAAGGAGGTGTTGGGCAGCATCAAAGGTGCTGGGACATCCAGGGTGGTGAGATCC
ATCCACGATCCAGCTCCGGTGGAGAAAGGGCCCATGTCAAGCCTTGTCTGCACCCCAAGCATTGGTGGTAGGAC
TGGGTCTGGCTGATCGTCCTTGTTCACAGTGGGGTACATGTGAGCCCCTGCCAGGGCCAAGTCCTTCTCCCGAA
CCCAGGGTCTGGGAACTGCAGATCCCGGGGGATTTCAGCCCTTCTCCCACTGTGCTGGCAGAGGCACCTCTGTG
ACGCTGAATACAGTGAACAGGGACATTCCCGCCACTCGGGGACAGATGGGCACAAGGGAGGGGAAACTCCATCAG
GAAGTGCTCCCTGGGCAGAGGCGCCCACTGGGTGCTGTGGGCTCAGGAGGGGCGGGGCAGGAGCTGGTGCCAA
CCGGGAACCAGAGCCCCACAGCCATACAGCCATTGGTGACAAGGTCTGAGAACACAGTGGCCAGGTGTCCCA
GGCTCCTGGCCCCCTCCGACGACCTCAACTCTGCCCAGCCCGGTCCCTGGCCATCAGCGACGCTGTCCGCCCCCG
TCAGATCCCATGTGTGCCATGTTTATCATCAGTGTGTTTGTATTTTGTACTGAGTATCGGAGCACTTTACAGAAG
CTGACTGTACATTCTGTCTGTGTTGTGAAGAGAACATTCCAGACCCTGGCACCTCTCTGAGCCGGCGTGTGCCG
GTCCAGCCCTCCGAGATGCCACAATTCTTGATGGGGGAGAAGTTCAAGGAATTTCTGCTCGGCCACGCGGTGG
GAACCCCGCGTCCCCGCCATGTGGCAGAGGGGTCTCAGTCGTGCTAGGCATCGGGCGGCAGCGCCGACAGCCCTT
CCCTCGCCAGTGGCCCTCGGCCACTCCTGGGTGGAGCCCGATTTTATTGTAAAGTTGACAGTCGAGCAAATGT
TCCTATTTTCGTGGGATCTGCACACGTCTTGTGAGTTGTGGTCATGATCTTAGTCACCTGCTAATTATTTTAC
AATGATTACAACATTTCTCACTGCGGGATATTTCTGACCCGCTTTAGAACTTAAGACCTGATTCTAGCAATAAA
CGTGTCCGAGATG

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FIGURE 1017

MTVSQKGGPQPTPSPAGPGTQLGPITGEMDEADSAFLKFKQTADDSLSLTSPNTESIFVEDPYTASLRSEIESDG
HEFEAESWSLAVDAAYAKKQKREVVKRQDVLYELMQTEVHHVRTLKIMLKVYSRALQEELQFSSKAIGRLFP
DLLETHSHFLARLKERRQESLEEGSDRNYVIQKIGDLLVQQFSGENGERMKEYGVFCSGHNEAVSHYKLLQON
KKFQNLIKKIGNFSIVRRLGVQECILLVTQRITKYPVLVERIIQNTAGTEDYEDLTQALNLIKDII SQVDAKVS
ECEKGQRLREIAGKMDLKSSSKLKNGLTFRKEDMLQRQLHLEGMLCWKTTSGRDKDILAILLTDVLLLLQEKDQK
YVFASVDSKPPVISLQKLIVREVANEKAMFLISASLQGPMEYIYTSSKEDRNAWMAHIQRAVESCPDEEEGPF
SLPEEERKVVEARATRLRDFQERLSMKDQLIAQSILLEKQQIYLEMAEMGGLEDLPQPRGLFRGGDPSETLQELI
LKSAMSEIEGIQSLICRRLGSANGQAEDGGSSTGPPRAETFAGYDCTNSPTKNGSFKKKVSSTDPRPRDWRGPP
NSPDLKLSDS DIPGSSEESPQVVEAPGTESDPRLPVLESELVQRIQTLSQLLLLNLQAVIAHQDSYVETQRAAIQ
EREKQFRLQSTRGNLLEQERQRNFEKQREERALEKLSQLRHEQQRWERERQWQHQLERAGARLQEREGEAR
QLRERLEQERAELEQRQAYQHDLERLREAQRAVERERERLELLRRLKKQNTAPGALPPDTLAEAQPPSHPPSFN
GEGLEGPRVSMPLSGVGPEYAEERPEVARRDSAPTESRLAKSDVPIQLLSATNQFORQAAVQQQIPTKLAASKGG
KDKGGKSRGSQRWESSASFDLKQQLLLNKL MGKDESTSRNRRSLSPILPGRHSPAPPPDPGFPAPSPPPADSPSE
GFSLKAGGTALLPGPPAPSPLPATPLSAKEDASKEDVIF

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FIGURE 1018

CACATGTCGGCGCAGGCGGCCAAAGTCAGTAAAAAGGAGCTCAACTCCAACCACGACGGGGCCGACGAGACCTCA
GAAAAAGAACAGCAAGAAGCGATTGAACACATTGATGAAGTACAAAATGAAATAGACAGACTTAATGAACAAGCC
AGTGAGGAGATTTTGAAGTAGAACAGAAATATAACAACTCCGCCAACCATTTTTTCAGAAGAGGTCAGAATTG
ATCGCCAAAATCCCAAATTTTGGGTAAACAACATTTGTCAACCATCCACAAGTGTCTGCACTGCTTGGGGAGGAA
GATGAAGAGGCACCTGCATTATTTGACCAGAGTTGAAGTGACAGAATTGAAGATATTAAATCAGGTTACAGAATA
GATTTTTATTTTGATGAAAATCCTTACTTTGAAAATAAAGTTCTCTCCAAAGAATTTTCATCTGAATGAGAGTGGT
GATCCATCTTCGAAGTCCACCGAAATCAAATGGAATCTGGAAGGATTTGACGAAACGTTTCGAGTCAAACGCAG
AATAAAGCCAGCAGGAAGAGGCAGCATGAGGAACCAGAGAGCTTCTTTACCTGGTTTACTGACCATTCTGATGCA
GGTGCTGATGAGTTAGGAGAGGTCATCAAAGATGATATTTGGCCAAACCCATTACAGTACTACTTGGTTCCCGAT
ATGGATGATGAAGAAGGAGAAGGAGAAGAAGATGATGATGATGAAGAGGAGGAAGGATTAGAAGATATTGAC
GAAGAAGGGGATGAGGATGAAGGTGAAGAAGATGAAGATGATGAAGGGGAGGAAGGAGAGGAGGATGAAGGA
GAAGATGACTAAATAGAACACTGATGGATTCCAACCTTCTTTTTTAAATTTTCTCCAGTCCCTGGGAGCAAGT
TGCAGTCTTTTTTTTTTTTTTTTTTTTTTCCCTCTTGIGCTCAGTCGCCCTGTCTTGAGGTCTCTTTTCTCTA
CTCCATGGTTCTCAATTTATTTGGGGGGAAATACCTTGAGCAGAATACAATGGGAAAAGAGTCTCTACCCCTTTC
TGTTGCAAGTTTCATTTTTATCCCTTCTGTCTGAACAAAACCTGTATGGAATCAACACCACCGAGCTCTGTGGGA
AAAAAGAAAAACCTGCTCCCTTGCTCTGCTGGAAGCTGGAGGGTCTAGGCCCTGTGTAGTAGTGTATAGAAT
TCTAGCTTTTTTCTCCTTTCTCTGTATATTGGGCTCAGAGAGTACACTGTGTCTCTATGTGAATATGGACAGTT
AGCATTTACCAACATGTATCTGTCTACTTTCTCTGTTTAAAAAAGAAAAAAGAACTTAAAAAATGGGGTTAT
AGAAGGTCAGCAAGGGGTGGGTTTGAAGTGTGGGTGGGTTAGTGGGCATTTTGACAACATGGCTTCTCCTT
TGGCATGTTTAAATTGTGATATTTGACAGACATCCTTGCAGTTTAAAGATGACACTTTTAAATAAATTCTCTCCTA
ATGATGACTTGAGCCCTGCCACTCAATGGGAGAATCAGCAGAACCTGTAGGATCTTATTTGGAATTGACATTCTC
TATTGTAATTTTGTTCCTGTTTATTTTGGGTTTCTTTTGTTCCTGGAAGGAAAGATGATGCTCAGTTTTA
AACGTTAAAAGTGTAAGTTGCTTTGTTACAATAAACTAAATGTGTACACAAAGGATTTGATGCTTTTCTCTC
AGCATAGGTATGCTTACTATGACCTTCCAAGTTTGACTTGATAACATCACTGTCAAACCTTTGTCACCCTAACTT
CGTATTTTTTGATACGCACCTTTTGCAGGATGACCTCAGGGCTATGTGGATTGAGTAATGGGATTGAATCAATGT
ATTAATATCTCCATAGCTGGGAAACGTGGGTTCAATTTGCCATTGGTTTCTGAAAAGTATTCACATCATTTGGGA
TACCAGATAGCTCAATACTCTCTGAGTACATTGTGCCCTTGATTTTATCTCCAAGTGGCAGTTTTTAAATTGG
CCTTTTACCTGGATATAAATTAATTGTGCCTGCCACCACCATCCAACAGACCTGGTGCTCTAATGCCAAGTTATA
CACGGGACAGTTGCTGGCATGTCTTCAATTGGCTCTCTAAAATGTGCCAAGAAGATAGGCTCTCAGTAAGAAGTC
TGATGGTGAGCAGTAAGTGTCCCTGCTTTCTGGTATAAAGCTCTCAAATGTGACCATGTGAATCTGGGTGGGATA
ATGGAATCAGCTCTGTCTGCTCAATGCCATTGTGCAGAGAAGCACCTAATGCATAAGCTTTTTAATGCTGTAAA
ATATAGTCGCTGAAATTAATGCCACTTTTTTCAGAGGTGAATTAATGGACAGTCTGGTGAACCTCAAAGCTTTT
TGATGTATAAACTTGATAAATGGAATATTCCATCAATAGGCAAAAGTGTAACACCTATCTAGATGGATAGTA
TGTAATTTCTGCACAGGTCTCTGTTTAGTAAATACATCACTGTATACCGATCAGGAATCTTGCTCCAATAAAGGA
ACATAAAGATTTAAAAAAGGAAAAA

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FIGURE 1019

MSAQAAKVSKKELNSNHDGADETSEKEQQEAIEHIDEVQNEIDRLNEQASEEILKVEQKYNKLRQPPFFQKRSELI
AKIPNFWVTTFVNHPQVSALLGEEDEEALHYLTRVEVTEFEDIKSGYRIDFYFDENPYFENKVLSEFHLNESGD
PSSKSTEIKWKSGKDLTKRSSQTQNKASRKQHEEPESFFTWFTDHSAGADELGEVIKDDIWPNPLQYYLVPDM
DDEEGEGEEDDDDDDEEEGLEDEEGDEDEGEDEDDDEEGEGEEDGEDD

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FIGURE 1020A

CGGGAGCCCAGGCGGGCAGGCCGCTGGGGTTCGGGGCTGCACGTACGAGAGCCGGGACGCCCCGGGTTTCAGAGCGAA
GGAGGAGGCATGGCTTCGGTGTTCATGTGTGGCGTGGAGGACCTGCTGTTTCAGCGGCAGCCGCTTCGTATGGAAAC
TTGACCGTGTCCACGCTGCGGAGATGGTACACGGAGAGGCTGCGGGCTTGCCACCAGGTGCTGCGGACGTGGTGC
GGGCTGCAGGACGTGTACCAGATGACAGAAGGCAGGCACTGCCAGGTGCACCTCCTGGATGATAGGAGACTGGAG
CTGCTGGTTTCAGCCCAAACCTTCTAGCAAGAGAGTTGCTGGACCTAGTGGCTTCACATTTCAACCTGAAAGAAAAG
GAGTATTTTGAATAACATTCATAGATGACACAGGTGACAGAACTGGCTGCAGTTAGATCACCGAGTTCTTGAC
CACGATTTGCCCAAGAAACCAGGCCCAACCATTTTGCACTTTGCTGTGAGGTTTTACATTGAGAGCATATCGTTT
TTAAAGGATAAAACCACCGTGGAGCTGTTTTCTGAATGCAAAGGCTGTGTGCACAAGGGGCAAATCGAAGTA
GAGAGCGAAACCATCTTCAAGTTAGCAGCGTTTATTTTACAGGAAGCCAAGGGAGATTATACCAGTGATGAAAAT
GCCAGGAAAGATTTAAAGACATTACCAGCCTTTCCAACCAAACCTCTTCAGGAGCATCCATCCCTTGCTACTGT
GAGGACAGGGTAATTGAGCATTATTTGAAAATCAAAGGTCTCACTCGAGGTCAAGCTGTGGTTCAGTATATGAAA
ATAGTAGAAGCTCTACCGACTTACGGTGTCCATTATTATGCAGTAAAGGATAAGCAAGGACTTCCTTGGTGGCTT
GGAATAAGCTATAAGGGAATTGGCCAATATGATATACAAGACAAGGTGAAGCCTCGGAAGTTATTCGAATGGAAA
CAGCTGGAGAAGCTTATATTTCCGTGAGAAAAAATTTGCTGTTGAAGTTCATGATCCACGAAGGATTTCAAGTTTCA
AGAAGAACCTTTGGGCAAAGTGGCCTGTTTGTGCAACATGGTATGCTAACTCTTCTCTCATCAAGTCCATTTGG
GTAATGGCAATTAGTCAGCATCAGTTTTACTTGGACCGGAAGCAAAGCAAAGCAAAAATTCCTTCAGCCAGGAGT
TTAGATGAGATTGCAATGGATTGACAGAGACAGGAACACAAGGGCCTCCAAGCTGGTGACACTGGAGGCGAAA
AGTCAGTTTCATCATGGCAAGTAATGGCAGTTTAATCTCCTCAGGTTCTCAAGACTCAGAAGTTAGTGAAGAGCAA
AAGAGAGAAAAATCCTTGAAGTAAAGAAGAGGAGAACTATTACAAGAAAACTTCTGAAAAAGTTGAGGAG
CTTAAGAAGATCTGTCTGCGGGAGGCTGAGCTCAGGCAAAATGCCAAAGGAGTATCCCCTGAACATAGGCGAG
AAGCCTCCTCAGGTCAGAAGACGTGTGGGTACTGCGTTCAAATTAGATGACAACTTGCTGCCGAGTGAAGAAGAT
CCTGCTTTGCAAGAACTGGAGAGTAATTTTCTAATAACAACAAAGCTGGTGGAGCTGCAAGAACTTGCCAAT
GAGCCAGACCTTTGTAAAAGTGTGAAGAAAAAGCGAAAGCAAGATTACACAGATGCGATGAAAAAGCTTCAGGAG
ATTGAAAATGCAATAAACGAATACCGAATTAGGTGTGGAAGAAACCCAGCCAGAAAGCAACAGTGTACCAGAA
GACATAATCCCCTCAGAGAGTAGCTCTTTGTCTGACACCACCCTATGATGATCCCAGTGATGCCTTCACTTTT
CCTGGGCAGCGATCAAGTTTCAGTACCTCATTCTCCAAGAATCTTCCCCCAAGTCTCTTGGTATTGAGCGAATC
CATTTTCAGAAAGTCGTCCATCAATGAACAGTTTGTGGATACCAGGCAGTCCAGAGAAATGCTGTCCACACACAGC
AGCCCTTACAAAAGCTCTGGAGAGGCGGCCCCAGGGAGGACGAAGCATGCCACCACGCCAGTTCTTACCCGAAAC
GCTACAGCAGCAGCCACTTGGAAACCCGAATCTTCATCTCAGCACTGCCGCCAGCGGAGTGAAGCCTGGAGTCC
CAGTCCCATCTGCTCTCCGAGATGGACAGCGATAAGCCATTTTCTCCCTCTCCAAATCCCAAAGAGCAGCAGC
ACAGAAATCCTCGATGACGGGTCTTCTTATACAAGCCAATCAAGCACAGAGTATTACTGTGTGACACCAGTTACC
GGCCCCATTACACCACCCAGACCTTGGACACTCGCACCAGGGGTGCGGAGGAGGTCAAAGAAACAGAATGTTTCT
ACTTCAAATTCAGGAAGCATGCCAACCTAGCACAAAAGGATAGTTTGAGGAATGGTGTCTTACTCAAAGAGTCAG
GAGCCACCGTCTTCCAGTTACTACATTGCCGGGTACACACCCTATGCAGAGTGTGACTTTTATTACAGTGGTGGT
TATGTCTATGAGAAATGACACCGAGGGACAGTATAGTGTCAACCCTTCCTACCGGTCTCAGCCCACTATGGATAT
GAGCGCCAGAGGGACTACAGCAGATCCTTTACGAAGATGAGGTGACCGGGTACCCCATACCCATATGCAACT
CTCCGGCTGCCAAGGAAGGCTGCTGCAAAATCGGAGCACATCACCAAAACATCCACAAGGCCTTAGTTGCCGAG
CACTTGCGTGGCTGGTACCAGCGGGCTCTGGGCAGAAGGATCAGGGACACAGCCCGCAGACCAGCTTGACTCA
GACAGGGGATCACAGAGATGCCTGGGGTTTGGCGGGCTGCAAGTACCTTGTTCTCCAAGCAGTCGTGCATCCTTG
TACTCTTCAGTGTCTTCTACAAATGCTTCTGGGAAGTGGAGGACCCAGTTAACCATAGGGCTGTCTGGATTACGAG
ACTCCAGCACATTTCTTACACCAGCTGCTATGGCAATGTCTATAATCCTTTACCCTCTCCAAGCAGACAATAC
ACAGAAATCAGTCAACTGGATGGTACAGATGGAACACAGCTGGAAGACAACCTGGAGAGTAGTGAGCAGAGACTC
TTTTGGCATGAAGATTCAAAGCCTGGAACATTAGTCTGAAGTGCAGTTGGACCTCCTGACCAAGCACTGCGTTCT
CACACTAGTGTGCCTTGCAAATTGTATTTGTCTTCCGAGAGGATGTTGTTTTAGAAACCTAAAGACATCAAAGG
TTGAAGAGAAGACTTAGTTGCCCTGGAAGTGAATCAGTGAATCACACACCAAGCCCCACAAAGCCCCATAAGGAG
GATTTGGCCTTTCAAAGCTTAGGCACTAACGTAAGTGTAGGGTCTGCCACATGTTGAAGTATTGCCAAGAGAGG
ACTCAGTGTGAAGCCTTCATCAATAGCAAGCACTTTTAAGGGAGTAAAGTTGTTAAAGGCAACCGTCAAAAAC
ATGAAAGGGCATTACAGGATGTCCCATGGCAATAAGAACAGGGGAAATCTCAGAGCACAATTACAGCAGGATGAGAG

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FIGURE 1020B

AAGGGGAACCAGAAGCTCCGGAGTCATTGCTCACTTCAGAGTTTGAATTCGTGAGCTGACAAAGAGTAACATGCT
CTTTCTACACAGACATGGACAATTTAGACAGTATTGGAAAATTACTTGAAGCTGGATTTTCATGAAGTTCTGAAT
GAGTGTAATGTTTTTTTAGGATACTATAAAGAGTGATGTTTTTCATAAGCACCATAAAATGGGTTCTGGAAAAAC
TGATTACCTTAGCATCCTGTAATATAACTTATGGTAGCAGATTGGGGAAAATGAAGCAGCCCACTGAATAATTGA
CAAAGTCTGCTTGGAGAACATTCTAAGGTACAATATCATGGAGCTCCTTTTTCTTTCTCCACTAATTGCGTGAT
GAGCTATTGTTCTGGCTGGTAATTCTCCAACCTCGGCTGTCATTTGAAGTGGCAGACTTAATATGGAAAGTTTTTA
TAATTATGAGTTTAAAAAGCATTTTAAGATGATACAGAAAGTATCCAAAACAACAGAAAAAAAAGCCACGTCA
TTTTAGATGAATTGCGTGCCTTAAATGGTGAACGTTAGAAAATTAAACAAGTCTGGATTCCACAAGTAGTTCCA
AGTCACCAAGTGACAAAAACAAGGTTAACATTAAAAAGAAAAACAACAACGACAAAAAGCTCCAAGCTGCA
GTGGATTTAATTATGAGGCTAAACTACCTCATACTTTCCTTGGGAAGAACTAATTAGCTATGGTTTATTGTAGGG
TTTTGTTTGTGTTTTTTTAAAGCAAATGATTTCCATATTCTTGATTGATCTTTTTTGTATCTTTGCTTCAAAA
TTACATAAAAGGTGCTCCTTTCCCCCTTCTTTTATACAAGTTTCTTGTTCATATTGTGAATAGAAAAGTTTCTGA
ACAACCTTTTTTGGAACATTTTCTATCTATATTCCAAAGCATGTAATATATACATAAAAAAGATTTGTTAACTGG
TCCTTAGTCATTTGTATAATTAGAAATGAAGTTTGGGAAAAAATTTTGGAAAAAGACAAGCAAAAAAAAATAA
CTTATTCCTTTTTTGCATATTGTATAGCCTTCTAGAATCAGAAATAACCTTTTTGCATATTCTTTTATTGTCT
GACTTTTCAAGACCTATTATTTTTTTACATAGGTCAATAAACAAGGTGTGCTACTG

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FIGURE 1021

REPRRAGRWRGCTYESRDARVQSEGGGMASVFMCGVEDLLFSGSRFVWNLTVSTLRRWYTERLRACHQVLRWC
GLQDVYQMTTEGRHCQVHLLDDRLELLVQPKLLARELLDLVASHFNLKEYFGITFIDDTGQONWLQLDHRVLD
HDLPPKPGPTILHFAVRFYIESISFLKDKTTVELFFLNACVHKQIEVESETIFKLAAFILQEAKGDYTSDEN
ARKDLKTLPAFPPTKTLQEHPSLAYCEDRVIEHYLKIKGLTRGQAVVQYMKIVEALPTYGVHYYAVKDKQGLPWWL
GISYKGIGQYDIQDKVKPRKLFQWKQLENLYFREKKFAVEVHDPRRISVSRRTFGQSGLFVQTYANS SLIKSIW
VMAISQHGFYLD RKQSKAKIPSARSLDEIAMDLTETGTQRASKLVILEAKSQFIMASNGSLISSGSQDSEVSEEQ
KREKILELKKKEKLLQEKLLKKVEELKKICLREAELTGMPKEYPLNIGEPQVRRRVGTAFKLDNLLPSEED
PALQELESNFLIQKLVAAKKLANEPDLCKTVKKKQDYTDAMKKLQEIENAINERYIRC GKPSQKATVLP
DIIPSESSSLSDTTTYDDPSDAFTFPGQRSSSVPHSPRILPPKSLGIERIHFRKSSINEQFVDTRQSREMLSTHS
SPYKTLERRPQGGRSMPTTPVLTRNAYSSSHLEPESSSQHCRQSGSLESQSHLLSEMDSDKFFSLSKSRSS
TEILDDGSSYTSQSSTEYYCVTPVTGPYYTTQILDTRTRGRRRSKKQNVSTNSGSMPLNAQKDSLNGVYSKSQ
EPPSSSYIAGYTPYAECDFYSSGGYVYENDTEGQYSVNPSSYRSSAHYGYERQDYRSRSHFEDEVDRVPHNPYAT
LRLPRKAAAKSEHITKNIHKALVAEHLRGWYQRASGQKDQGHSPQTSFDSDRGSQRCLGFAGLQVPCSPSSRASL
YSSVSSTNASGNWRTQLTIGLSDYETPAHSSYTSCYGNVYNPLPSPSRQYTEISQLDGTGDNQLEDNLESSEQRL
FWHEDSKPGTLV

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FIGURE 1022

GGGACGTGAGCCGCTGCGCCACCGGGCTAGACCCGGCGCCATCATGCTGCTTCTGCCAAGCGCCGCGGACGGCC
GGGGCACCGCCATCACCCACGCTCTGACCTCTGCCTCTACACTCTGTCAAGTTGAACCTGTGGGAAGATGGTTTG
AAGCTTTTGTTAAGAGGAGAAACAGAAATGCTTCTGCCTCTTTTCAGGAAGTGGAGGATAAGAAAGAGTTATCCG
AGGAATCAGAAGATGAAGAATTGCAGTTGGAAGAGTTTCCCATGCTGAAAACACTTGATCCCAAAGACTGGAAGA
ACCAAGATCATTATGCAGTTCTTGGACTTGGCCATGTGAGATACAAGGCTACACAGAGACAGATCAAAGCAGCTC
ATAAAGCAATGGTTTTTAAACATCACCCAGACAAACGGAAAGCAGCTGGTGAACCAATAAAAGAAGGAGATAATG
ACTACTTCACTTGCATAACTAAAGCTTATGAAATGTTATCTGATCCAGTGAAGACGAGCATTAAACAGTGTAG
ATCCTACTTTTGATAACTCAGTTCCTTCTAAAAGTGAAGCAAAGGATAATTTCTTCGAAGTGTTTACCCAGTGT
TTGAAAGGAATTCCAGATGGTCAAATAAAAAAATGTTCTAAACTTGGTGATATGAATTCATCATTTGAAGATG
TAGATATATTTTATTCTTCTGGTATAATTTTGATTCTTGGAGAGAATTTTCTTATTTAGATGAAGAAGAAAAAG
AAAAAGCAGAATGTCGTGATGAGAGGAGATGGATTGAAAAGCAGAACGGAGCAACAAGAGCACAAAGAAAAAAG
AAGAAATGAACAGAATAAGAACATTAGTTGACAATGCATACAGCTGTGATCCAAGGATAAAAAAGTTCAAGGAAG
AAGAAAAAGCCAAGAAAGAAGCAGAAAAGAAAGCAAAAGCAGAAGCTAAACGGAAGGAGCAAGAAGCTAAAGAAA
AACAAAGACAAGCTGAATTAGAAGCTGCTCGGTTAGCTAAGGAGAAAGAAGAGGAGGAAGTCAGACAGCAAGCAT
TGCTGGCAAAGAAGGAAAAAGATATCCAGAAAAAAGCCATTAAGAAGGAAAGGCAAAAACCTCGAAAACATGCA
AGATAGAAGAAATAAATGAGCAAATCAGAAAAGAGAAAGAGGAAGCTGAGGCTCGTATGCGACAAGCATCTAAGA
ACACAGAGAAATCAACTGGTGGAGGTGGAATGGAAGTAAAAATTGGTCAGAAGATGATCTACAATTACTAATTA
AAGCTGTGAATCTGTTCCCTGCTAGAACAAATTCAGATGGGAAGTTATTGCTAATTACATGAACATACATTCTT
CCTCTGGAGTCAAAGAAGCTGCCAAAGATGTTATTGGCAAAGCAAAGAGTCTCAAAAACCTTGACCCCTCATCAA
AAGATGACATAAATAAAAAGGCATTTGATAAGTTCAAAAAAGAACATGGAGTGGTACCTCAAGCAGACAACGCAA
CGCCTTCAGAACGATTTGAAGGTCCATATACAGACTTCACCCCTTGGACAACAGAAGAACAGAAGCTTTTGGAAC
AAGCTTTGAAAACATACCCAGTAAATACACCTGAAAGATGGGAAAAAATAGCAGAAGCGGTGCCTGGCAGGACAA
AGAAGGACTGCATGAAACGATACAAGGAACCTGTGAGATGGTAAAAGCAAAGAAAGCTGCTCAAGAACAAGTGC
TGAATGCAAGTAGAGCCAAGAAATGACAATCTTTGTTGTGTGTCATTTTATAATAAAACTGAAAATACTGTAA
ACATTTTCATTCTTAAATTATACTCATGGTAATAATTTGAAAGTAAAAAAGAAAAA

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FIGURE 1023

DVSRCAHRARPGAIMLLPSAADGRGTAITHALTSASTLCQVEPVGRWFEAFVKRRNRNASASFQELEDKKELSE
ESEDEELQLEEFPMKTLDPKDWKNQDHYAVLGLGHVRYKATQRQIKAAHKAMVLKHHDPKRKAAGEPIKEGDND
YFTCITKAYEMLSDPVKRRAFNSVDPTFDNSVPSKSEAKDNFFEVFTPVFERNRWSNKKNVPKLGDMNSSFEDV
DIFYSFWYNFDSWREFSYLDEEEKEKAECRDERRWIEKQNGATRAQRKKEEMNRIRTLVDNAYSCDPRIKKFKEE
EKAKKEAEKKAKAEAKRKEQEAKEKQRQAELEAARLAKEKEEEEVRQQALLAKKEKDIQKKAIKKERQKLNSCK
IEEINEQIRKEKEEAARMRQASKNTEKSTGGGGNGSKNWEDDLQLLIKAVNLFPARTNSRWEVIANYMNIHSS
SGVKRTAKDVIGKAKSLQKLDPHQDDINKKAFDKFKKEHGVVPQADNATPSEFEGPYTDFTPWTTTEEQKLLEQ
ALKTYPVNTPERWEKIAEAVPGRTKKDCMKRYKELVEMVKAKKAAQEQVLNASRAKK

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FIGURE 1024A

GCGGCGGTGCGGCCAGGCTGCAGCTGAGCGCTCTGCGCGGCGCAGCCGGGTCTCCGCGTGTACCACGCCGTGA
CAGGTGCAGAGTCCGGGCTGAGGACCCACCTGCAGCCGCCGCCGCGATGCCACCATGCGGAGGACCGTGTGCGA
GATCCGCTCGCGCGCCGAAGTTATGAGAAGACAGATGATGTTTCAGAGAAGACCTACTGGCTGACCAGGAGGA
AGTAAGGACTATTTTCATCAACCAGCCCCAGCTGACAAAATTCTGCAATAACCATGTCAGCACTGCAAAATACAA
CATAATCACATTCCCTCCAAGATTCTCTACTCTCAGTTCAGAAGAGCTGCTAATTCATTTTTTCTCTTTATTGC
ACTGCTGCAGCAAATACCTGATGTGTACCAACAGGTCGTTATACAACACTGGTTCCTCTCTTATTATTATTAGC
TGTGGCAGCTATCAAAGAGATAATAGAAGATATTAACGACATAAAGCTGATAATGCAGTGAACAAGAAACAAAC
GCAAGTTTTGAGAAATGGTGTCTGGGAAATTGTCCACTGGGAAAAGGTGGCAGTAGGGGAGATAGTGAAGTGAC
CAATGGGGAACATCTCCAGCAGATCTCATCAGTCTGTCTCAAGTGAGCCCCAAGCCATGTGCTACATTGAAAC
ATCCAACTTAGATGGTGAAACAACTTGAAAATTAGACAGGGCTTACCAGCAACATCAGATATCAAAGACGTTGA
CAGTTTGATGAGGATTCTGGCAGAATTGAGTGTGAAAGTCCAAACAGACATCTCTACGATTTTGTGGAACAT
AAGGCTTGATGGACATGGCACCCTCCACTGGGAGCAGATCAGATTCTCTTCGAGGAGCTCAGTTGAGAAATAC
ACAGTGGGTTCATGGAATAGTTGTCTACACTGGACATGACACCAAGCTGATGCAGAATCAACAAGTCCACCCT
TAAGCTCTCAAATGTGGAACGGATTACAAATGTACAAATTTGATTTTATTTGTATCTTAATTGCCATGTCTCT
TGTCTGTTCTGTGGGCTCAGCCATTTGGAATCGAAGGCATTCTGGAAAAGACTGGTATCTCAATCTAAACTATGG
TGGCGCTAGTAATTTTGGACTGAATTTCTGACCTTCATCATCCTTTTCAACAATCTCATTCCATCAGCTTATT
GGTTACATTAGAAGTTGTGAAATTTACCCAGGCATACCTCATAAATTTGGGATCTTGACATGCACATATGAACCCAC
AGACACTGCTGCTATGGCTCGAACAATCTAATCTGAATGAGGAAGTGGCCAGGTTAAATACATATTTTCTGACAA
AACTGGTACTCTGACATGCAATGTAATGCAGTTTAAAGAGTGCACCATAGCGGGAGTTGCTTATGGCCATGTCCC
TGAACCTGAGGATTATGGCTGCTCTCCTGATGAATGGCAGAAGTACAGTTTGGAGATGAAAAACATTTAGTGA
TTCATCATTGCTGGAATCTCCAAATAATCATCCAAGTGCACCTATAATATATGAATTTCTTACAATGATGGC
AGTCTGTACACAGCAGTCCAGAGCGAGAAGGTGACAAGATTATTTATCAAGCAGCATCTCCAGATGAGGGAGC
ATTGGTCAGAGCAGCAAGCAATTGAATTTGTTTTCTGGAAGAACACCCGACTCGGTGATTATAGATTCAGT
GGGGCAGGAAGAAAGATATGAATTGCTCAATGTCTTGGAGTTTACCAGTGTAGGAAAAGAAAGTGCAGTGATTGT
TCGCACTCCATCTGGAAGTTACGACTCIACCTGCAAAGGAGCTGACACTGTAATTTATGATCGACTGGCAGAGAC
GTCAAATAACAAAGAAATTACCTAAAACATTTAGAGCAGTTTGTCTACAGAAGGGTTAAGAAGTTTATGTTTTGC
TGTGGCTGAGATTTAGAGAGCGACTTTACAGGAGTGGCGAGCAGTCTATCAGCGAGCATCTACATCTGTGCAGAA
CAGGCTACTCAAACCTCGAAGAGAGTTATGAGTTGATTGAAAAGAAATCTTCAGCTACTTGGAGCAACAGCCATTGA
GGATAAATTACAAGATCAAGTGCCTGAAACCATAGAAACGCTAATGAAAGCAGACATCAAAATCTGGATCCTTAC
AGGGGACAAGCAAGAAACTGCCATTAACTCGGACACTCCTGCAAACCTGTTGAAAGAAGCAATGGGAATGATTGT
TATAAATGAAGGCTCTCTTGATGGAACAAGGGAAACTCTCAGTCGTCAGTGTACTACCCTTGGTGATGCTCTCCG
GAAAGAGAATGATTTTGTCTTATAATTGATGGGAAAACCTCAAATATGCCTTAACCTTTGGAGTACGACAGTA
TTTCTGAGCTTAGCTTTGTCTATGCAAAGCTGTCATTGCTGTGCGGGTTTCTCTCTTCAAAAATCTGAAGTTGT
TGAGATGGTTAAGAAACAAGTCAAAGTCGTAACGCTTGCAATCGGTGATGGAGCAAATGATGTCAGCATGATACA
GACAGCGCAGTTGGTGTGGTATCAGTGGCAATGAAGGCTGCAGGCAGCTAATCTCTGACTACTCCATAGC
TCAGTTCAAATATTTGAAGAATTTACTGATGATTGATGGTGCCTGGAAGTATAACAGAGTCTCCAAGTGCATCTT
ATACTGCTTCTACAAGAATATAGTGCTCTATATTATCGAGATCTGGTTTGCCTTTGTTAATGGCTTTTCTGGACA
GATCCTCTTTGAAAGATGGTGTATAGGTCTCTATAACGTGATGTTTACAGCAATGCCTCCTTTAACTCTTGGAAAT
ATTTGAGAGATCATGCAGAAAAGAGAACATGTTGAAGTACCCTGAATTATACAAAACATCTCAGAAATGCCCTGGA
CTTCAACACCAAGGTTTTCTGGGTTCAATTGTTTAAATGGCCTCTTCCACTCAGTTATTCTGTTTTGTTTTCCACT
AAAAGCCCTTCAAGTATGGTACTGCAATTTGGAATGGGAAAACCTCGGATTATCTGCTACTGGGAACTTTGTGTA
CACTTTTGTGGTGATAACTGTGTGTTTGAAGCTGGATTGGAGACATCATATTGGACATGGTTAGCCACATAGC
GATATGGGGGAGCATCGCACTCTGGGTGGTGTGTTTGGGAATCTACTCATCTCTGTGGCCTGCCATCCGATGGC
CCCTGATATGTCTAGGAGAGGCAGCCATGTTGTTCAAGTCTGAGTCTTTGGATGGGCTTGTATTATCTCCCTGT
GGCATCTCTGCTCCTTGATGTGGTGTACAAGTTTATCAAGAGGACTGCTTTTAAACATTGGTTCGATGAAGTTCA
GGAGCTGGAGGCAAAATCTCAAGACCCAGGAGCAGTTGTACTTGGAAAAGCCTGACCGAGAGGGCGCAACTGCT
CAAGAACGCTCTTAAAGAAGAACCGTGAAGTTGTACCGCTCTGAATCCTTGCAACAAAATCTGCTCCATGGGTA
TGCGTTCTCTCAAGATGAAAATGGAATCGTTTACAGTCTGAAGTGATAAGAGCATATGATACCAGAAACAGAG

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FIGURE 1024B

GCCCCACGAATGGTGAATGGGGAGAGCCTGAAAGGCAGGCTCTGTTACCTCTCTAAGGAGAGCTACCAGGTTGTCA
CCGCAGTCTGCTAACCAATTCCAGTCTGGTCCATGAAGAGGAAAGGTAGATCTGAGCTCATCTCGCTGATGGACA
TTCAGATTTCATGTATATTATAGACATAAGCACTGTGCAACTGTACTGTAACACCATCTCTTTTGGATTTTTTTAA
GGTATTTGCTAAGTCTTTGTAAACGGAAATTGAAAATGACCTGGTATCTTGCCAGAGGGCTTTCTTAAACGGAGA
ATAAGTCAGTATTCTTATGCCATTACTGTGGGGCTGTAAGTACTGTGCTGTTTATGGCTGTACCACAAGGTAAC
CAACCATTAAAAAACTCTAAATGATATTTAGTTAAAGGGACTCTTGGTATCCAGACTTAGATTTTCAGGATATGCT
GAAACAAACCAGCATTCTTAAGGAAGTACTCACCTTCTGAGCAAAATTTCTAAACAAGCATTGTGTCCAAAA
TTGTCTTGATAAATGTTTGCCAAAGAGGTTTCAGTAAGTGTCTTTCTAGTTTCAGTAGTCATATGCCAGAAATGTA
AGAGAAAGTTTACTTCCAGTTCCGCTGTAAGATCTGCATGCCTGACTTTCCAAATGTAAGAGTGATTACAAAAA
TGAATATTTCAAGGCATTTGCTACTAAATCGGTGATGTTGCACCTTTGGCCTTACAAATGCTTCTTTGTTGTTT
GTCGTGTTTATTTGTTAGAGGACACACGTGTTAATGTGACTCTGTTGTTATGACACTGATTTTCAAACATATGTA
TGTTTCAGGTATTTCTGATGAAGTTTCATCATCATTAGATTTTTCTAAAAATCTGGCTAATGCAGTAGATTGAG
TGATGTCATTTTGTCTTAAAGTTTTCTCTTAAAGAAACATATGCTACGTATTTACGTGGGATTTCCAAAGCTTC
TGTTGCAATATTTGGAATAACATGTCAGATAAATGCATGGGCTTTTGCTCTGTTTCCAGTTCCCACTAGAGATG
CCTGTGCTTTGTGTAGCACACCCAGTGTATGGTGACTGCCCCCTATACTGAAGACTGAAAATTATTTACAGTT
CACTCATCAAAATAGTTCCCAAAATTCGTCACATGCTGCTTATTGGGACAAATAGGTAGTACATTTTCCCATTTA
AAAAATGCGGATTTTACTCAGGCCGGTAACCTTTACAGTCAGAGGACACGTTTCATCATGAGTAGCTTTGTAGTA
TGTTTTAAATGTATCTTCAGTTCAATTATTTTACGATTTTACAAGACATCTGAAAATGGCTATTTTGCTACCAA
CAGTAAATGAAGGGCTGTTTAAAAACCACAACCACTTTTCTACACTATTTTTTAAATAATACTTTCATTTGAAA
AAAAGGAATTAGTTTTAGATACACTTCAGAGATTGAAGCAAACATTTGCTTTTACTCAAAAGCCTGCTTGCC
TTTACATGGACTTACCAGCAAAATAGGTAGAATTTCTCTTTTAAAAAAGTCAACTAGAATTGAGAAGAGGTGA
TTTTTTTTCAGATCGCTTCTCGAGTTAATATTTTACATTTCTTTTACCCTTTTTCTCAATCTAGATTTAAAT
TAGGATATATGTCATTTCTTGTCTGTATTTGTAGTCTCTTAGTTACCAGTATGCCCTCCATTTTCTACAAATA
AGAGGTTATAACACATATACATAATCTAACCTTAAGGGAACACACGTTTACATACCTTACTTCCCAAGCCCTTC
CTGTTTGGGGTACAGATTGAGAGAGTCATGAATCAACACATCTAGCAAGACCACAGGTGTAAGAGTCTAAGATCG
TCTTCAAAATTCGTAAGTCCAGTCTTTACCTGTCCAGTGAATGAATATTCAGAGCAGCTTTTCTGGGCTTCCC
AGTGTGTATAGCTGAGGTCAAACCACAAAAATAAGAAAGCAAGAGTGAAATGCACCCCTCCAGAGAAACAATTT
GTAGTGTTTAAATCTGTTAATAGAGAAGAGCTGCTTCTGTTTGGCGCTCACTTCATCAGTGGCACCCCTTCTGCAGA
ATTTTAAATATAAAACATTATGGATATAATAGAAGTGGATTTTCTGACTTAAAAATGTAAGTTTTATTTAATCT
TGAACCGTGGATTGTTTCTGTGGAGCTCTTAAACATGAGAAGAATACTTACGGTTGATAATGTGTAACATGATCT
GAAATGTGACTAATTTGAGCCTCTTTGTCCCATCGTCTGTTTTTGAATTATTGACATTGTGCTCTCTTTGCTT
CCTGGGTGAGACTTGGGGTTTGGGGACAGGGAATGACCTTCTTGGTGAAACCTTAAATATAACATTGCAATTGC
AGTGACTTTACAGTGTAAATTAGAGAAAATAGTCTGATTTTTTAAACCTTCTTAACTGGAAAAAGTCAATG
GTTTTACCAGGATTGAAATAAACAGTCAATGTGACTTTTAAACATGTGTTTTTTGAAATAAAGGGCAGTACTCT
TCAATTAAAAAGTTTCTTATAGGGACTCTGGCAATGCTAACACAGTTGCTTTACAATGTTTACAATTACAGACAA
TACGACTTATAATAGAAAATCCTCATTCAATTTAGCATTGAAAAGCTGGAAGTTGCTTCTTAAATGTTGAATAGTA
TACAGTGGTATTGAGCATGGACTTTCTAAATGTTTTATATATACATATAAAAAATATATTGGTGTCTCACACCCAG
AAAGATGTTATATTGTAGATATTATTAGGAAAACAGTGTCTCAGGAACGTTGTAAATTTTAAATGATATATGT
ACTTCCCGTCTCCACCTCCACTCTGTGCTCTAATGTGAGACTGCTTCAGCAGTGTGCTAAGTTAATGGAAAA
CTTTTCTAATCAAGTCAGGTGAATGTGATTCTGCTAAATAATGTTAGCCATTTACATGAATTGTATGGTCATT
AAATGGAATCAGTGATTCTCTTTAATTTCCAGAGGGGAAATGAATTATGGAATCAGTCAGCATTCTGATCATT
AAATTTTATACCTTTAATTTTGGCGTTTACGATTTCTAAATATCCAATGTGAAAGTCACATGATAATTTGTTTTGCA
TTGCGTGCAGTGTACAACTTACAACCTGTGCTTTTAAATGTTTTCTCGGGAAATGAATGCTAGTCAGAAAGTA
ATAGATTGTATTATTCATAGTTTTTAAATATGACAATGTGATAATTACTACAAAGCTAAATAATCGTGTATTATT
TTTGTCAGTTGCCCTTTGATAGTTCTGTTTTTAAACCTATTAAAGTGTATAATCTTACAAATAGTCATCTACA
AAATTTATGGAGAAAGTGCCAGCCCATTCACATCAGTGGACCAGGAATCTTTTGTAAATGACTTAAGGTAAC
ATCATGCAGTTCAGTGCTAATAAATGCTTTTTAATGATGAGCATTCTTATAATGACTCGTAAGATACCATAGTC
TGATTTTTCTCACATTAATAAATACTGAAGTCACTTGTGTAACGTAGTTATACCTTGTGCTGATTTTAAATTAACCTT

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FIGURE 1024C

CAACAGCTATTAAAGTGGAATGTAAGTTAAATTTTGAAGGAAAGGAAATAAATGTTTTCCATATTTTCGTCTTGAT
TTACTTTTCGTATGAGAACAGCTGTGTTTTTGATAGGTTTATGGTTTGCATGAGTTCATATTTAAAGTGATCCAG
GCCAATGCATGGCTATTGCTGTAAATCTTGATGTTTATTTCTGCCTTGTAAGTTCTATCACGGCCTACCTGGAA
TTTAAATTCAGTAGACAAATTAATTGGTCCTCTGCACAACTTTTTTAATAAGTAGATTATTTTACAAAGAAATT
TGAACAAATTTAATTGAATCTTTTGTTTAGCTTGCCCTCTAAGAACTTTTCTTAATAAAGCTCCCAAACTTCTCA
GCAATAAATCTCCCTTAAGTAGGAAAAC TAGATTTCATATTTGCTTACTTTGAATTAACAGCAACTTTCCACAG
GTAAATCTGTTCTTGCAAAGATGTGAGCAGAATAGTTAAAAATAATTTTTATGTTTCATGTTCTAAATGGAA
GCCATAAATGCAGTAAATACTATCTGTTGTTTAACTACTTTAATCGTCATTTTTTACATTTTCAAGTTTATTAGG
TTAAGAAAAACAGGGCAGCCTTGGAAGGCAGCTACTACAGAAAAC TGCAATTTTGCCTTAAAGATAAAGTAGTAT
TTTCAGCTCCCTGAAAAACCATTCTGCTGAAACTGCTGTAGAAATTGTGAAGCTGCATGAGTGGAGAGTATTGA
ATCTGTGGTTATAGTAGTTTTCTCAGGTTTGTTTATCTTGATGTTTGATGCACTGTGTTTTATAGTTATTAAAT
TGAGTAATATTATTTCTATGCAGTGTATGTGTCATTGGCCTTTTGTGAATGTGCATGTTTTAACTGCAAAATT
TAAACATTTTGTCTCTAATTGTTATTAAAAATGAAATAAACTTTACCATTACTTAAAAAAA

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FIGURE 1025

MP TMRRTVSEIRSRAEGYEKTD DVSEKTS LADQEEVRTIFINQPQLTKFCNNHVSTAKYNIITFLPRFLYSQFR
AANSFFLFIALLOQIPDVSP TGRYTTLVPLLFILAVAAIKEIIEDIKRHKADNAV NKKQTQVLRNGAWEIVHWEK
VAVGEIVKVTNGEHL PADLISLSSSEPQAMCYIETS NL DGETNLKIRQGLPATSDIKD VDSL MRISGRIECESPN
RHLYDFVGNIRLDGHGTVPLGADQILLRGAQLRNTQVWHGIVVYTGHD TKLMQNSTSPPLKLSNVERITNVQILI
LFCILIAMSLVCSVGS AIWNRHSGKDWYLN LNYGGASNFGLNFLT F IILFNNLIPISLLVTLEVVKFTQAYFIN
WDLDMHYEPTDTAAMARTSNLNEELGQVKYIFSDKTGTLTCNVMQFKKCTIAGVAYGHVPEPE DYGCSPDEWQNS
QFGDEKTFSDSSLENLQNNHPTAPIIYEFLTMMAVCHTAVPEREGDKIIYQAASPD EGALVRAAKQLNFVFTGR
TPDSVIIDSLGQEERYELNLEFTSARKRMSVIVRTPSGKLRLYCKGADTVIYDRLAETSKYKEITLKHLEQFA
TEGLRTL CF AVAEISESDFQEWRAVYQRASTSVQNRLKLEESYELIEKNLQLLGATAIEDKLQDQVPETIETLM
KADIKIWILTGDKQETA INIGHSCKLLKKNMG MIVINEGSLDGTRETLSRHCTTLGDALRKENDFALIIDGKTLK
YALTFGVRQYFLDLALSCKAVICCRVSPLQKSEVEMVKKQVKVVT LAIGDGANDVSMIQT AHVGVGISGNEGLQ
AANSSDY SIAQFKYLKNLLMIHGAWNYNRVSKC ILYCFYKNIVLYIIEIWFAFVNGFSGQILFERWCIGLYNVMF
TAMPPLTLGIFERSCRKENMLKYPELYKTSQNALDFNTKVFWVHCLNGLFHSVILFWFPLKALQYGTAFGNGKTS
DYLLLGNFVYTFVVITVCLKAGLETSYWTWFSHIAIWGSIALWVVF LGIYSSLWPAIPMAPDMSGEAAMLFS SGV
FWMGLLFIPVASLLLDVVYKVIKRTAFKTLVDEVQELEAKSQDPGAVVLGKSLTERAQLLKNVFKKNHVNLYRSE
SLQQNLLHGYAFSQDENGIVSQSEVIRAYDTTKQRPDEW

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FIGURE 1026A

CGCCCTTAGCCGATCGGGGCGCTCAGCCACACGCACCGCTGCTCGGGGCTTGGAGATCCGCGCAGGCTGGGCTC
CCGGACGCGGCGGACCGACGCGCGGAGGATCGGGATCCGGCGCTGTGGGGCTGGGGTGGGCGGGGAGGCTGGGC
CCGGGGCCTCTGGCGCGACCCCGCATGAGGACGCGAGTGAAATAGACCAAGGTGGAATTTCCAAGGGAAAAGCT
TCGGGGTGGTTTTGGTCCATTTCTCCAGCGAAGAAGTAGACATGGCGAGCGACTCCCCGGCTCGAAGCCTGGATG
AAATAGATCTCTCGGCTCTGAGGGACCCTGCAGGGATCTTTGAATTGGTGGAACTTGTGGAAATGGAACATACG
GGCAAGTTTTATAAGGGTCGTCATGTCAAAACGGGCCAGCTTGCAGCCATCAAGGTTATGGATGTCACAGGGGATG
AAGAGGAAGAAATCAAAACAAGAAATTAACATGTTGAAGAAATATTCTCATCACCGGAATATTGCTACATACTATG
GTGCTTTTATCAAAAAGAACCACAGGCATGGATGACCAACTTTGGTTGGTGTGAGGATTTTGTGGTCTGGCT
CTGTCACCGACCTGATCAAGAACACAAAAGGTAACACGTTGAAAGAGGAGTGGATTGCATACATCTGCAGGGAAA
TCTTACGGGGGCTGAGTCACCTGCACCAGCATAAAGTGATTTCATCGAGATATTAAAGGGCAAAATGTCTTGCTGA
CTGAAAATGCAGAAGTTAACTAGTGGACTTTGGAGTCAGTGCTCAGCTTGATCGAACAGTGGGCAGGAGGAATA
CTTTCATTGGAACCTCCTACTGGATGGCACCAGAAGTTATTGCCTGTGATGAAAACCCAGATGCCACATATGATT
TCAAGAGTGACTTGTGGTCTTTGGGTATCACCGCCATTGAAATGGCAGAAGGTGCTCCCCCTCTCTGTGACATGC
ACCCCATGAGAGCTCTCTTCTCATCCCCCGGAATCCAGCGCCTCGGCTGAAGTCTAAGAAGTGGTCAAAAAAAT
TCCAGTCATTTATTGAGAGCTGCTTGGTAAAGAATCACAGCCAGCGACCAGCAACAGAACAATTGATGAAGCATC
CATTTATACGAGACCAACCTAATGAGCGACAGGTCCGCATTCAACTCAAGGACCATATTGATAGAACAAGAAGA
AGCGAGGAGAAAAAGATGAGACAGAGTATGAGTACAGTGAAGTGAGGAAGAAGAGGAGGAGAATGACTCAGGAG
AGCCAGCTCCATCCTGAATCTGCCAGGGGAGTCGACGCTGCGGAGGGACTTTCTGAGGCTGCAGCTGGCCAACA
AGGAGCGTTCTGAGGCCCTACGGAGGCAGCAGCTGGAGCAGCAGCAGCGGAGAATGAGGAGCACAAGCGGCAGC
TGCTGGCCGAGCGTCAGAAGCGCATCGAGGAGCAGAAAGAGCAGAGGCGGCGGCTGGAGGAGCAACAAAGCCGAG
AGAAGGAGCTGCGGAAGCAGCAGGAGAGGGAGCAGCGCCGGCACTATGAGGAGCAGATGCGCCGGGAGGAGGAGA
GGAGGCGTGCGGAGCATGAACAGGAATACATCAGGCGACAGTTAGAGGAGGAGCAGAGACAGTTAGAGATCTTGC
AGCAGCAGCTACTGCATGAACAAGCTTACTTCTGGAATATAAGCGCAAACAATTGGAAGAACAGAGACAAGCAG
AAAGACTGCAGAGGCAGCTAAAGCAAGAAAGAGACTACTTAGTTTCCCTTCAGCATCAGCGGCAGGAGCAGAGGC
CTGTGGAGAAGAAGCCACTGTACCATTACAAAGAAGGAATGAGTCCTAGTGAGAAGCCAGCATGGGCCAAGGAGG
TAGAAGAACGGTCAAGGCTCAACCGGCAAGTTCCCTGCCATGCCTCACAAGGTTGCCAACAGGATATCTGACC
CCAACCTGCCCCCAAGGTCGGAGTCCTTCAGCATTAGTGGAGTTTCAGCCTGCTCGAACACCCCCCATGCTCAGAC
CAGTCGATCCCCAGATCCCACATCTGGTAGCTGTAAAAATCCAGGGACCTGCCTTGACCGCCCTCCAGTCAGTGC
ACGAGCAGCCCAAAAGGCTCTCTGGGTTTCAGGAGGCTCTGAACGTGACCTCCCACCGCGTGGAGATGCCAC
GCCAGAACTCAGATCCCACCTCGGAAAATCCTCCTCTCCCCACTCGCATTGAAAAGTTTGACCGAAGCTCTTGGT
TACGACAGGAAGAAGACATTCCACCAAAGGTGCCTCAAAGAACAACCTTCTATATCCCCAGCATTAGCCAGAAAGA
ATTCTCTGGGAATGGTAGTGCTCTGGGACCCAGACTAGGATCTCAACCCATCAGAGCAAGCAACCCCTGATCTCC
GGAGAACTGAGCCCATCTTGAGAGGCCCTTGACAGAGGACCAGCAGTGGCAGTTTCTCCAGCTCCAGCACCCCTA
GCTCCCAGCCCAGCTCCCAAGGAGGCTCCAGCCTGGATCACAAGCAGGATCCAGTGAACGCACAGAGTTTCGAG
CCAACAGTAAGTCAGAAGGATCACCTGTGCTTCCCATGAGCCTGCCAAGGTGAAACCAGAAGAATCCAGGGACA
TTACCCGGCCCAGTCGACCAGCTAGCTACAAAAAGCTATAGATGAGGATCTGACGGCATTAGCCAAAGAACTAA
GAGAACTCCGATTGAAGAAAACAAACCGCCCAATGAAGAAGGTGACTGATTACTCCTCCTCCAGTGAGGAGTCAG
AAAGTAGCGAGGAAGAGGAGGAAGATGGAGAGAGCGAGACCCATGATGGGACAGTGGCTGTCAGCGACATACCCA
GACTGATACCAACAGGAGCTCCAGGCAGCAACGAGCAGTACAATGTGGGAATGGTGGGGACGCATGGGCTGGAGA
CCTCTCATGCGGACAGTTTCAGCGGCAGTATTTCAAGAGAAGGAACCTTGATGATTAGAGAGACGTCTGGAGAGA
AGAAGCGATCTGGCCACAGTGACAGCAATGGCTTTGCTGGCCACATCAACCTCCCTGACCTGGTGCAGCAGAGCC
ATTCTCAGCTGGAACCCCGACTGAGGGACTGGGGCGCTCTCAACCCATCCCAGGAGATGGACTCTGGGACTG
AATATGGCATGGGGAGCAGCACAAAGCCTCCTTACCCCTTTGTGGACCCAGAGTATACCAGACGTCTCCCA
CTGATGAAGATGAAGAGGATGAGGAATCATCAGCCGACGCTCTGTTTACTAGCGAACTTCTTAGGCAAGAACAGG
CCAACTCAATGAAGCAAGAAAGATTTCCGGTGGTAAATGTAAACCAACCAACATTCCGCCTCATAGCGACACAC
CAGAAATCAGAAAATACAAGAAACGATTCAACTCAGAAATACTTTGTGCAGCTCTGTGGGTGTAAACCTTCTGG
TGGGACTGAAAATGGCCTGATGCTTTTGGACCGAAGTGGGCAAGGCAAGTCTATAATCTGATCAACCGAGGC
GATTCAGCAGATGGATGTGCTAGAGGGACTGAATGTCTTGTGACAATTCAGGAAAGAAGAAATAGCTACGAG

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FIGURE 1026B

TTTACTATCTTTTCATGGTTAAGAAACAGAATACTACATAATGACCCAGAAGTAGAAAAGAAACAAGGCTGGATCA
CTGTTGGGGACTTGGAAGGCTGTATACATTATAAAGTTGTTAAATATGAAAGGATCAAATTTTTGGTGATTGCCT
TAAAGAATGCTGTGGAAATATATGCTTGGGCTCCTAAACCGTATCATAAATTCATGGCATTAAAGTCTTTTGACAG
ATCTCCAGCACAAAGCCTCTGCTAGTTGATCTCACGGTAGAAGAAGGTCAAAGATTAAAGGTTATTTTTGGTTTCAC
ACACTGGTTTCCATGTAATTGATGTTGATTTCAGGAACTCTTATGATATCTACATACCATCTCATATTTCAGGGCA
ATATCACTCCTCATGCTATTGTCATCTTGCTTAAACAGATGGAATGGAATGCTTGTGCTATGAGGATGAGG
GGGTGTATGTAAACACCTATGGCCGGATACTAAGGATGTGGTGTCTCAATGGGGAGAAATGCCACGCTGTGTG
CCTACATTTCATCCAATCAGATAATGGGCTGGGGCGAGAAAGCTATTGAGATCCGGTCAGTGGAACAGGACATT
TGGATGGAGTATTTATGCATAAGCGAGCTCAAAGGTTAAAGTTTCTATGTGAAAGAAATGATAAGGTATTTTTTG
CATCCGTGCGATCTGGAGGAAGTAGCCAAGTGTTTTTCATGACCCCTCAACAGAAATTCATGATGAAGTGGTAAC
AGAAGAGCACTTGGCACTTATCTTCATGGCGTTATTTCTAATTTAAAGAACATAACTCATGTGGACTTATGCCA
GTCTAGAGGCAGAAATCAGAAGGCTTGGTTGAACATATCGCTTTCCCTTTTCTCTCCCTCCGCCCTCCAGTA
CAGTCCATCTTTCAATGTTGCAGCCTGGTTGAGAAGGAGAGAAAAAGGTGGCAGGAATTTCCAGGAGATCCCCAA
GAATGCTGCCTTGTCTGTGGACAAAGATGGACCATGTGCCCTTCGGAATTAGGGATAGAAACAAATATTGTGTGC
TCTTAACGATTAAGCTGTGTTATGGTGGGTTTTTCAGGTTTTTACCTTTTTTCTTTACCCCTTTACTCTGCAAGAA
TGGGGAAAGAATGCATACTGCGAAATGAGTCTTTTAAATCTGTCTGCCTACTAGTTTTAAGTATATGGTATGT
TGTAATAATTTCCAATGATGAGAGACAGCACATAAATGTACCTTATCTCCTTAGGCTGAAGGCCATAACTACATA
GTGGAGTAATTTAAGAACTCTCTTGCCCTTACCAACCCAAAAGGTTGCTTTTTGATAGCAACTGGCTAATGAATT
TTTAAAAGAGAAGAAAAATACTAGTTTTCCCTCTTTTGGGAAATAGATTTTAAATGGCTAACTACTAGCCTT
AAAACACTAGTCTAATAAAATCAACTACCCTTTTGTGAATCTGACAGGCCACATTTTATATGGCCCTTTACA
GAATGGAGTGTGTTGAACAGGATACTAACGCCATTGAGTTGAGCTGGCCTAGCGATGGAGGGACACTCTAACACA
ACTTTCCTCAGCTATTATGCAACAGATCAGGGAAAAAGATGGGATGACAGATGGGGTCAGACAGAAAGAGCTTC
TGGGAAACAAGCTTACATAGTCTTTTTTAAATGCACAAAGCCTCCCAGCTAAGAGGTCACTTGGTTTGGGCTTC
ATTAGGACTGAGACTTTGTTGAGTTCTTTCTGGGACTTGGAGAGTGGATGATATTCAGGCTCTGAACATTCCCAG
CGTCTCCCGAGGGTGCCACTTTCTCAAGATGAAAACCTGTGACTGAAAAAATTAATAATAAATGTTTCTGAGCTG
CCTGTGTTCTCCCTGTGTGGGTGAGAGAAGGGACTAGACTCCTAAGCCTGCCTCAGATACAAGAGGCATCATTGG
CTCCAATTTTAGAGAACTTGAAAGCAAGGCTTTGGACAAAATTTTGAGACCCTAATCACTTTACCTTCCCTCCAAA
TTACCCAACATACGGTAAACAACATTTGTGCAGAAGTATGTATGTTTAGTTTCAGGTTGACTTGTGTCTTATA
AACTCTTACTCAAATGATTTGAACCTT

[illegible]

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FIGURE 1028A

GGACAAAGTGAATACGGCTTTGCTGAAAAAGTAGTTGAGGGAATTTCTGTTTCTGTAAATTCTATAGTCATCAGA
ATTGGAGCAAAAGCCTTCAATGCATCATTGAACTTTCTCAGCTTCGGATCTATAGTGTAATGCACACTGGGAA
CATGGAGATTTGAGATTTACTCGTATTCCAGGATCCACAGAGAGGAGAGGTTTGGACTTTTAAAGAAATAAATTGG
CAGATGATAAGAATAGAGGCAGATGCCACCCAAAGTTCACATCTTGAAATTATGTGTGCTCCTGTTTCGATTAATA
ACCAACCAATCAAAAATCAGAGTCACACTTAAAGAAGGTTAAAGGACTGCAATGTCATAGCAACAAAGTTAGTT
CTAATATTGGATGACTTATTATGGGTTTTGACTGATTCCAGTTGAAAGCTATGGTACAATATGCAAAGTCTCTT
AGTGAAGCAATAGAAAAATCAACAGAACAAAGGAAGAGTATGGCTCCTGAACCTACACAGAGCTCTACAGTAGTC
GCATCTGCCAGCAAGTGAAGACAACGCAAACTTCAAATGCTCCTGATGTAAATGATGCAATTGTGAACTATTTC
AATGATTTTGATGTTAAGGAAACCTCCCATCATTAGTGATTTCTCATCTAGATCTACACATATGTGATGACATT
CATGCTAAAGAAAAAGAGTCAACAGACGTATTACTGGAGGGGCAATGCAACTCTCTTTTACACAGCTAACTATA
GATTATTATCCTTATCATAAAGCAGGAGATAGTTGTAATCATTGGATGTATTTTAGTGATGCAACCAAAACAAAA
AATGGATGGGCCAATGAGTTATTGCATGAATTTGAGTGCAACGTTGAAATGCTTAAACAGGCTGTGAAGGATCAT
AATGTAGGTTTCACTCCTAAATCCCCAACACATGCCTCTCCCCAGCACACACAAACAGAGAAGGACTACCTCTG
AAAGGGACATGCAGAACACCTTCAGTATTATCTCAACAATCAAAAGCTAAGCTAATGTCTAGTTCTGTTGTGGTT
AGACTTGCAGATTTCAATATATACCAGGTCTCTACAGCGGAACAATGTCGTTCTTCCCCCAAAGCATGATTTGC
TGCAATAAAAAATCCCTATATCTTCCACAAGAAATGTCAGCTGTCTATATAGAATTCACAGAATATTACTATCCA
GATGGAAAGGATTTTCCAATTCCATCTCCCAACCTCTATAGCCAGCTGAATGCACTACAGTTTACTGTGGATGAA
AGAAGCATTCTATGGTTAAATCAATTTCTGTTGGATTTAAACAGAGTCTTAATCAGTTTCATGGCTGTGTACAAG
TTGAATGACAATTCAAAATCTGACGAGCATGTTGATGTTTCAGTTGATGGCTTAATGCTAAAGTTGTCAATTCCT
TCTGAAGTGAATCTGAATGTCATCAAGATCAGCCACGTGCAATTTCTATTAGAGTTCTGAAATGATTGCCACA
AATACAAGGCACGTGCCAACTGTCGACATTCTGACCTAGAAGCTTTGTTTCAAGACTTTAAAGATTGTGATTTT
TTTAGTAAAACATATACCAGCTTCCCCAAATCTGTGACAATTTAATCTTCTACATCCAATTTTCCAGAGACAT
GCTCATGAACAAGATACCAAAATGCATGAAATTTATAAAGGAAATATTACTCCCAATTGAATAAAAACACTCTT
AAAACCTTCTGCTGCCACGGATGTTTGGGCTGTGTACTTTTCTCAATTTTGGATAGATTATGAAGGGATGAAAAGT
GGAAAAGGACGGCCAATAAGTTTTGTAGACTCATTCCCTCTTTCATTGGATTGTCAACCAACAAGATATGCA
GAGTCACAAAAAGAGCCGAGACTTGTAATCAGGTATCTCTAAATACATCACAAAGTGAATCTAGTGATCTGGCT
GGCCGATTGAAGCGGAAGAAGCTCTTGAAGGAGTATTATAGTACAGAGTCTGAGCCTTTGACAAATGGTGGTCAG
AAGCCTTCTTCATCAGATACATTTTTCAGATTTTCCCTTCTCTGTCAGAGGCAGATATTCATCTCCTAGTTTCAT
GTTTATAACATGTCAGTATGCAGATTAATCACTACCAGTATCTGCTTCTACTTTTCTGTCATGAGTCACATTATC
CTGCTTTTCAGAGAACTTAAGGAAAGATGTAGAAGCTGTAAGTGGCAGTCTGCTAGTCAGACATCCATTTGTATT
GGAATTTTACTTAGAAGTGCAGAACTGGCTCTTTTGTCTCCATCCAGTGGATCAAGCAAATACTCTTAAGTCTCCT
GTTTCTGAAAGTGTGAGCCAGTGGTACCTGATTATTTGCCTACAGAAAATGGGGATTTTTTGTCTTCAAAAAGA
AAACAAATTAGTAGGATATAAATAGAATTAGAAGTGTAAGTGTAACTGTTAATCATATGTCAGACAACAGATCTATGAGT
GTTGACCTTAGCCATATCCCTTTAAAGGATCCTTTGCTTTTTTAAATCAGCTAGTGATACAAATCTGCAAAAAGGC
ATTTCTTTTATGGACTATTTATCAGATAAACATTTAGGGAAAATAAGTGAAGATGAAAGTAGTGGACTTGTTTAC
AAAAGTGGCTCAGGAGAAATTGGATCAGAAACAAGTGACAAAAGGATTCAATTTTATACAGATTCAAGTAGTATC
TTAAACTACAGAGAAGATTGCAATATACTTTTCAATTTGATAGTGATGGTAATCAAAACATACTTTCAAGTACTTTA
ACTAGTAAAGGAAATGAAACCATAGAGTCCATCTTTAAAGCTGAAGATTTGCTTCCAGAAGCAGCTTCACTCTCT
GAAAACCTGGATATCAGTAAAGAAGAGACCCCCCAGTTAGAACACTTAAATCACAGTCATCTTTAAGTGGAAAG
CCTAAGGAACGTTGCCACCCCAACCTGGCTCCTCTCTGTGTTTCTTATAAGAATATGAAAAGAAGCTCTTCACAA
ATGTCATTGGATACCATTTCACTTGACAGCATGATATTGGAAGAACAGTTATTAGAAAAGTGATGGAAGTGATAGC
CATATGTTTTTGGAAAAAGGAAATAAAAAGAACTCACTACAAATTACAGGGGCACAGCAGAAAGTGTAATGCT
GGTGCAAACTACAGAATTATGGTGAACTTCTCCAGATGCCATCAGTACAAATTACAGAGGTGCTCAGGAAAAT
CATGATGACCTGATGTCCGTTGTGGTATTTAAAATTACTGGTGTTAATGGGGAAATTGACATCCGAGGGGAAGAT
ACAGAAATCTGTCTTCAAGTGAACCAGGTGACACCAGACCAATTAGGCAATATCAGCCTTCGGCATTACCTTTGT
AATCGTCCAGTTGGTTCCGATCAGAAAGCTGTAATTCATTCCAAATCCTCTCCTGAGATTTCTCTGAGATTTGAA
AGTGGGCTTGGTGCTGTAATACACTCTTACTTGCAGAAAAAATGGATTTCTGCAGTGCCACATAGAAAACCTTC
AGCACTGAGTTTCTTACATCTTCTCTTATGAATATTCAACATTTTTTGGAAAGATGAAACTGTTGCAACAGTAATG

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FIGURE 1028B

CCAATGAAGATACAAGTTTCTAACACGAAAATAAATTTAAAAGATGATAGTCCCCGGAGTAGTACAGTATCCCTT
GAACCAGCTCCTGTAACTGTACATATTGATCATCTTGTGGTAGAGAGAAGTGACGATGGCTCTTTTCATATCAGA
GATTCTCACATGCITTAACACTGGAAATGATTTGAAAGAAAATGTCAAAGCGATTTCAGTGCTGCTGACCAGTGGA
AAGTATGATCTGAAGAAACAACGCAGTGTACGCAAGCCACTCAGACAAGCCCAGGGGTTCCCTTGGCCTTCTCAG
TCAGCTAACTTTCTGAGTTCTCCTTTGACTTCCTAGGGAACAGCTCATGGAAGAGAATGAATCTCTTAAACAG
GAACTGGCTAAAGCTAAAATGGCTCTTGCAGAGGCTCACTTGGAAAAAGATGCTCTTCTTCATCATATAAAGAAG
ATGACAGTTGAATAGCAGGAGTGGCAGTCAAACTGAAATTATAGCTCTGGAGTAGGAAGGTTATATTTATAATG
TGGATGTTACCAGTTAGGGGAAGACTTTTATTTTCATGAAAAGACAATAAAACAAAATGGAATGTGATGAAGTGG
TGACTATTTCAAAGCCAGTTTAGAAAGTATTAGTACGGGCATTACAATCTTTGGTTGTTTTGTGTTTTGGGGCT
TAACCTCTTTTAAGCTGTTGTGATCTAGGGAAGTCAACACATAGTGTAATAAATTACATGCCTAATGAAAAGA
AGATGTCATTTCTAATTTTGATATCTCATTTTCGGCATTTTTTAAAATGTAAAAGGAAAACCTCTTGTTTCAC
ACAGATTGCTGAATTGATTTCTCCATATTGTTAATAATTTACTATTATTTACAAAGATTCAAATGCTTTTATGA
CTAATGTAAAATGAAAAGAGGCTTACATTTTAAATGTTATTTAAAATTATGTACTTAAATCTATAATTATTTAATT
ATTGTAAAAAGTCCAAGCAGATCAATAAACTATATAATTAATGGGTTTGG

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FIGURE 1029

CGGTCCGGACAGCCGCGCTGAGGGTCTCGGGGCGGGCGCCGCGGGACCTCTCCGGGCCATGGCAGCCCCTGTC
AAAGGGAACAGGAAGCAGTCCACGGAGGGTGACGCCCTAGACCCACCTGCATCCCCAAACCTGCTGGCAAGCAG
AACGGAATCCAGAACCCCATCTCGCTGGAGGACTCCCCGAGGCAGGCGGGGAGCGGGAGGAGGAGCAGGAGCGG
GAGGAGGAGCAGGCCTTCTGGTCAGCCTCTACAAGTTTCATGAAGGAGCGACACAGCCCATCGAGAGGGTGCCC
CATCTCGGCTTCAAGCAGATTAACCTGTGGAAGATCTACAAAGCAGTGGAGAAGCTGGGGGCTATGAGCTGGTG
ACCGGGCGCGCCTCTGGAAGAACGTGTACGACGAGCTGGGGGGCAGCCAGGCAGCACCAGCGCGGCCACGTGC
ACGCGCCGCCACTACGAGAGGCTGGTCTGCCATACGTGCGGCACCTGAAGGGGGAGGATGACAAGCCGCTGCCC
ACCTCCAAGCCCAGGAAACAGTACAAGATGGCTAAGGAGAACAGGGGGGATGATGGGGCCACCGAGAGGCCGAAG
AAGGCCAAGGAGGAGCGGCGCATGGACCAGATGATGCCAGGAAGACCAAGCAGATGCTGCTGACCCAGCACCA
CTTCCCAGCCAGGAGCCCCCAGGAACAGCACAGAACAGCAGGGCCTGGCCTCTGGGTCTTCTGTGTCTTTGTG
GGTGCCAGCGGCTGTCTGAGGCCTACAAGCGGCTCTATCCAGCTTCTACTGCAAGGGGACACACGGCATCATG
TCACCACTGGCCAAAAAGAAGCTCCTGGCCAGGTGAGCAAGGTGGAGGCCTTGCAAGTCCAGGAGGAGGGCTGC
CGCCATGGGGCAGAGCCCCAGGCTCCCCAGCTGTTACCTCCCAGAGAGTCCCCAGAGCCCCAAAGGGCTGACT
GAGAAGTCCAGGCACCGGCTGACCCCTCAGGAGGGATTGCAGGCCCCAGGTGGCAGCCTCAGAGAGGAGGCGCAG
GCAGGCCCCCTGCCCGGCAGCCCCCATCTTCAAGGGCTGCTTCTACACCCACCCACCGAGGTGCTGAAGCCTGTC
AGCCAGCACCCACAGGGACTTCTTCTTAGACTTAAAGATGGGGTGCTATTGGGGCCTCCTGGCAAAGAGGGGCTG
TCAGTGAAAGAGCCCCAGCTGGTGTGGGGCGGAGACGCTAACCGCCCTTCTGCGTTCCATAAAGGTGGCTCCAGA
AAGGGCATCCTCTACCCCAAGCCCAAGCCTGCTGGGTGTCCCCCATGGCCAAGGTCCCAGCCGAGAGCCCCACG
CTCCCGCCACCTTCCCCAGTAGCCAGGCCTGGGCAGCAAGCGCAGCCTGGAGGAAGAGGGTGTGCCCCACAGT
GGGAAGAGACTGCGGGCCGTGTCTCCCTTCTTAAGGAGCGGATGCCAAGAAGTGTGGGGCCAAACCTGCAGGG
TCCGGCCTGGTCTCCTGCCTTCTGGGCCAGCCCTGGGGCCTGTGCCCCCAGAGGCCTACAGGGGCACCATGCTG
CACTGCCCCGCTGAACTTCACTGGCACCCCGGGCCCTTGAAGGGCCAGGCTGCACTCCCCCTCAGCCCCCTGGTC
ATCCCGGCCTTCCCGGCCACTTCTTGCCACCGCAGGCCCTCGCCCATGGCCGCTGGCCTGATGCACTTCCCC
CCAACGTCTTCGACAGTGCCTCCGCCACAGACTTTGCCCGGCCTCATCTGCCTGGCACGCACCACAGTCACA
ACCTATGCAGCGCCCCACTTCTTCCACCTCAACACCAAGCTGTAGGCCAGCCCATGGTGTGTGTACTGTGGA
GTCGACAGGGGCCTACAACAGGCAGGTACTGCTGCCAGGGGGCTCTGAAGTGTGCTGCTACCCAGGACACCCG
GGCCATGCCCTGGCTGGGCAGCCTGGCACAAGTGAAGAAGAAGGCAGTGGGAAAAGTGGGTTTATCTCAAGGCA
GCAGCCTGAGCCAGGAGCAGAGGACCCAGTTGTTATAAGGCGCTGGGAGAGGATGGGCAGCTCCCACTGCCCCA
GAGCGGASSTCGAAGCACCCAGGTTGCCACGGAAAATCCAATAAAAAGACACCAGTGTGAATCAAAAAAAA

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FIGURE 1030

RSGQPRAEGLGAGAAGPLRAMAAPVKGNRKQSTEGDALDPPASPKPAGKQNGIQNPISLEDSP EAGGEREEEEQER
EEEQAFVLVSLYKFMKERHTPIERVPHLGFKQINLWKIYKAVEKLGAYELVTGRRLWKNVYDELGGSPGSTSAATC
TRRHYERLVLPYVRHLKGEDDKPLPTSKPRKQYKMAKENRGDDGATERPKKAKEERRMDQMPGKTKADAADPAP
LPSQEPFRNSTEQQGLASGSSVSFVGASGCPEAYKRLSSFYCKGTHGIMSPLAKKKLLAQVSKVEALQCQEEGC
RHGAEPQASPAVHLPESPQSPKGLTENSRRHLTPQEGLOAPGGSLREEAQAGPCPAAPIFKGC FYTHPTEVLKPV
SQHPRDFFSRLKDGVLGPPGKEGLSVKEPQLVWGGDANRPSAFHKGGSRKGILYPKPACWVSPMAKVPAESPT
LPPTFPSSPGLGSKRSLEEEGAHSGKRLRAVSPFLKEADAKKCGAKPAGSGLVSCLLGPALGPVPEAYRGTML
HCPLNFTGTPGPLKGQAALPFSPLVIPAFPAHFLATAGPSPMAAGLMHFPPTSFDSALRHRLCPASSAWHAPPVT
TYAAPHFFHLNTKL

[illegible]

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FIGURE 1032

ATGACGGTGGGCAAGAGCAGCAAGATGCTGCAGCATATTGATTACAGGATGAGGTGCATCCTGCAGGACGGCCGG
ATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCACATGAATTGATCCTCTGTGACTGTGATGAGTTCAGAAAG
ATCAAGCCAAAGAACTCCAAACAAGCAGAAAGGGAAGAGAAGCGAGTCCTCGGTCTGGTGCTGCTGCGAGGGGAG
AATCTGGTCTCAATGACAGTAGAGGGACCTCCTCCCAAAGATACTGGTATTGCTCGAGTTCCACTTGCTGGAGCT
GCCGGGGGCCCAGGGATCGGCAGGGCTGCTGGCAGAGGAATCCCAGCTGGGGTTCCCATGCCCCAGGCTCCTGCA
GGACTTGCTGGGCCAGTCCGTGGGGTTGGCGGGCCATCCCAACAGGTGATGACCCACAAAGGAAGAGGTACTGTT
GCAGCCGCTGCAGCTGCTGCCACAGCCAGTATTGCCGGGGCTCCAACCCAGTACCCACCTGGCCGTGGGGTCTT
CCCCACCTATGGGCCGAGGAGCACCCCTCCAGGCATGATGGGCCCACCTCCTGGTATGAGACCTCCTATGGGT
CCCCAATGGGGATCCCCCTGGAAGAGGGACTCCAATGGGCATGCCCCCTCCGGGAATGCGGCCTCCTCCCCCT
GGGATGCGAGGCCTTCTTTGA

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FIGURE 1033

MTVGKSSKMLQHIDYRMRCILQDGRIFIGTFKAFDKHMLILCDCDEFKIKPKNSKQAEREKRVLGLVLLRGE
NLVSMTVEGPPPKDTGIARVPLAGAAGGPGIGRAAGRGIPAGVPMPQAPAGLAGPVRGVGGPSQQVMTPQGRGTV
AAAAAATASIAGAPTQYPPGRGGPPPMGRGAPPPGMMGPPPGMRPPMGPPMGIPPGRGTPMGMPPPGMRPPPP
GMRGLL

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FIGURE 1034A

GGTCTTCAGGAGAGCCAGGAGAGGCCAGTTGTACGTGCCTGAAACATGAGGACTTCGAGTTGGCTTTTCCTTCTC
TTGACCAAGGGCGCAGACCCCCGTGCTATTTCTCTCACGGAAGGTGATACTCCTTTGCATGCAGCACTCCACATC
TTTCTAGAGATTAAAGCTGACATTGGTTTTAGCTTCCTCAGCCATCTGTTGGATCTGTTTTGGTCCAACCCCACT
GAATTCGACTACCTCAACCCCAATGTCCAGGACAGCAATGGGAACACGCTGATGCACATCCTCTTCCAGAAGGGC
ATGCTAAAGCGCGTGAAGAAGCTGTTAGACCTGCTGGTGAAGTTTGACATCAACTTCAATCTGAAGAACAAGAG
GGCAAAGATGCACGGCACCAGGATTAAGAAGAACGACTCTCTGCTCTTGGCCTGGAACAAAGCTCTGATGGAGAAC
AGGAGGAGGAGCCGGCAGGACTCTGCTGCCACCTGGGGAAGCTCTCAAAGTCCACTGCCCTGGTCCACATCT
CAGCTCAAGTCCCAGGGTTCATTCAAGTCAGTGCCATGTGGTGCCACTGCCAGAACACTGCCTGAAGGAAGTGCA
GTCCCTGACAGCTGGGAGACTCTCCAGGTACCCAGGTGACCAGGAAGGAGCCTGGAGCTCTCAGGCCCTGCTCG
CTGAGAGACTGCCTTATGCAGGACATCACAGTTTTGATTACAGCAGTTGAAGTGGATCCGCTCTTCCAGAGGAC
TGTCTTCAGAGCTCTGAGCCTCTGGAGGCAGGAGCTGGCAAAGAAGGAAAGAGATGACAAGCCGACTCTGGGT
GCAGGGGCCCCCTGACTGTAGTGAGGTGGGGGAAGGACATGCTCAGGTGGGTCTTGGGGCCTGCAGCTTGTGCCT
GATGATAACAGGGGGAAGGAGGGCAATGATGATCAGGATGACTGGAGCACGCAGGAGATTGAGGCCTGCCTCCAG
GACTTCGATAACATGACCTGGGAGATCGAGTGCACCTTCAGAAATGCTGAAGAAGCTGTCTAGTAAGGTAATGACC
AAGGTCATCAAGAAGAAAATCATCCTTGCCATTACAGCAGCTGGGAAATGGCGAGTGGACCCAGGGCCTGCAGAAG
CGACTGAAGCACCTGAAAGGAAGCATCCAGCTCTTCGAAGCTAAGCTGGACAAAGGAGCCCGATGCTCTGGGAG
CTCGCCATTGACTTCTCCCTCGATGCAGTGAGAACCCTGAGAAGATCATTGCCACGGAGCAGAACACGTGTGCA
ATGGAGAAATCAGGGCGGATCTACACGGAAATCATCCGATTGGGACATCGTCTTAGATCACTGCAAACTGGCT
GATTCCATCAAGGCCATCTGCAATGCCTACAACCGGGGCTGTCTGTGTCTGCGGAAGAAGCTGAAAGGTATC
AATAAAGGCCAAGTGTGAGCTAACATGAAAATTCAAAGCGTATACCTCGCTGCTATGTGGAGGACACAGAGGCC
GAGAAGGGCAGGGAGCATGTCAATCCTGAGTACTTTCCCCAGCCAGTGCAGTGGAGACAGAATATAACATCATG
AAGTTCCACAGCTTCAGCACCAACATGGCCTTAACATCCTCAATGACACGACAGCCACAGTGGAGTACCCCTTC
CGGGTGGGTGAGCTTGAGTACGCGGTGATCGACCTCAATCCAGGCCACTGGAGCCCATCATCCTTATTGGCGCA
AGTGGCACTGGGAAGACAACCTGCTGCTTGTACAGATTGTGGAAGAAATTCCACGTTTACTGGGAAAAGCTGAG
CAGGCAGGAAGCCCATTGCTGCCAAACAGGTCTGGCTGAAGAGAAGGTTGGAAGTGAACCCGGAAAAGAGAGT
CCAGGTGGGGAGGAAGAGGGGGAGGAAGAGGACGAGGAAGAGGAAGATTCTATTGAAGTGGAAACAGTAGAAGC
ATAGATGAGCAGGAGTATGAAGCCTGCGCAGGAGGAGCCGTTGTGGAGCCAGCAGGGGACGGCCAAGCTGCAGAA
GTATGTGACCAAGAACATCCCCACCAGCTGGAGCATTTACATCAGATCTTTGTGACCAAGAACCATGTGCTGTGC
CAGGAGGTACAAAGGAATTTTCATTGAGCTTTCCAAGTCCACCAAGGCCACTAGTCATTACAACCCTGGACCCC
AACATTACAAACTCCAGGACCTGAGGGACGAGAATTTCTCTGTTTGTCACTTCCAAGCAGCTGCTTCTTCTG
CTTGATGCTTCTCTGCCAAACCATTTTTTCTGAGAAACGAAGATGGAAGCTTGAAAGAACCATCATAGGATGG
TCTGCACAGGAAGAGTCAACCATTCCTAGTTGGCAAGAGGATGAAGAGGAGGCTGAGGTGGATGGGGACTACAGT
GAGGAGGATAAAGCTGTAGAAATGCGTACGGGTGACAGTGACCCCCGGGTGTACGTGACGTTTGAGGTGTTCAA
AATGAAATATGGCCCAAATGACCAAGGGAGGACTGCCTACAACCCTGCACTGATTGGAAGAAATAAAATCT
TTTCTAAAGGGTCTTTTGAGGCCCTCAGCTGTCCCATGGGAGACTCACTGAAGAAGTATATAAGAAATTAGGG
AGGAAACGGTGGCCCAATTTCAAGGAAGACCGGAGTGAGATCTACAGCCTCTTCAGTCTGTATCAGCAAATCAGG
TCCCAGAAAGGTTATTTGATGAAGAGGATGTTCTGTACAACATATCCCGGAGGCTGTGCAAGCTCAGGGTGCTC
CCATGGTCCATCCACGAGCTCTATGGTGATGAGATTCAAGACTTTACCCAGGCCGAGCTGGCGCTGCTGATGAAA
TGCATCAATGACCCCAACTCTATGTTCTCACGGGGACACGGCCAGAGCATCATGAAGGGCGTGGCCTTCCGC
TTCAGCGATCTGCGCTCTCTGTTCCATTATGCCAGCAGAAACACCATAGACAAGCAGTGTGCTGTCCGGAAGCCC
AAGAAGATCCACAGCTGTACCAGAATTACAGTCCCCTCAGGAATCCTCAATCTGGCATCTGGAGTGGTGGAT
TTACTTCAGTTCTATTTCCAGAATCTTTTGATCGCCTTCCAAGGGATTCTGGCCTCTTTGATGGTCTTAAGCCA
ACTGTTCTGGAGTCTGTAGTGTAAAGCGACTTGGCAATTTTGCTACGAGGGAATAAAAGGAAAACCTCAGCCATT
GAATTTGGAGCCCACAGGTAATCCTTGTGGCCAATGAAACGGCAAAGGAGAAAATTCAGAAGAGCTGGGGTTA
GCACTTGTGCTAACAAATTTATGAAGCAAAAGGCTTAGAATTTGATGATGTCTCCTTTACAACCTTTTACTGAT
TCTGAGGCTTATAAGGAATGGAAGATCATTTCCTCATTACACCTACCTCACTGACTCCAGAGAGGAAAACCGG
CCATTGGTTGAAGTACCCCTGGACAAACAGGCTCTTCTCAGGGTCGATCTCTCATGGTGAATCCAGAAATGTAC
AAGCTCCTCAACGGAGAGCTGAAGCAGCTGTACACCGCCATCACACGGGCTCGGGTCAACCTCTGGATCTTTGAT

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FIGURE 1034B

GAAAACCGAGAGAAACGGGCTCCCGCATTCAAATATTTTCATTAGAAGAGATTTTGTCCAAGTTGTAAAGACAGAT
GAAAATAAAGACTTTTGATGATAGCATGTTTCGTTAAGACCTCAACTCCTGCGGAGTGAGATTGCACAGGGAGATTAC
TACGCCAAGCACCAGTGCTGGAAGGTTGCAGCCAAGTGTTACCAGAAAGGAGGTGCATTTGAGAAGGAGAAGTTG
GCCCTGGCCCATGACACTGCCCTGAGCATGAAATCCAAGAAAGTCAGCCCCAAGGAAAAGCAGTTGGAATATTTG
GAATTGGCTAAGACCTATTTGGAGTGCAAAGAGCCAACACTGTCCCTTAAGTGTCTGAGCTATGCCAAGGAGTTC
CAGCTCTCTGCCAGCTGTGCGAGAGGCTGGGAAAAGATAAGAGATGCTGCCTATTTCTATAAGCGAAGCCAGTGC
TACAAAGACGCTTTTCAGATGCTTTGAGCAGATTTCAGGAATTTGATCTAGCACTCAAAATGTACTGCCAAGAGGAG
CTTTTTGAAGAAGCTGCTATTGCAGTGGAAGATATGAAGAAATGCTAAAGACTAAGACCCTTCCCATTTCGAAG
CTCTCCTATTCTGCCAGTCAGTTTTACTTGGGAAGCTGCAGCAAAGTATCTGAGTGCAAATAAGATGAAGGAAATG
ATGGCTGTCTCTCAAAGCTAGACATAGAAGACCAGCTGGTGTCTTGAAGTCTCGGAAACGCTTAGCAGAAGCT
GCAGACCTGTGAACAGGGAAGGTAGGAGAGAAGAGGCTGCCCTGCTGATGAAGCAACATGGCTGCCTCCTGGAG
GCTGCCAGGCTCACTGCCGACAAGGACTTCCAGGCCTCATGTCTGCTGGGGGCCCGCCGCTCAATGTGGCCAGG
GATTCCGACATAGAACACACCAAGGACATTCTGAGAGAAGCACTTGATATCTGCTATCAAACCTGGCCAGTTGTCT
GGCATTGCGGAGGCCCCACTTCTGCAAGGGTAATCCTGAGAGACTTTCAGAAGCTCAGGGATGCCTTCTTCAAG
TTTGACACGCTCAACCACTCAGCTGGAGTGGTGAAGCACTCTACGAAGCAGCCAGCCAGTGTGAGGCCGAGCCT
GAGAAGATTCTGGGCTGGCTCCAGGGGGCTTGAAATCCTCCTCAGTCTGGTCAGGGCTCTCAAAGAGTGACC
AACAAATGCTGAGAAGGAAATGGTCAAATCTTGCTTTGAGTTTTTGGGATTTCCAGGTGGATGCCAAGTATTGC
CAGATAGCTCAGAATGACCCTGGGCCCCATATTAAGAATAATTTTTGACCTGGATTGAACTTGAGAGAGAAAAAA
ACAAAAGATCATTTTTTGATAATGACTGACCAAGTGAATTAGCCCTAAACAAACACCTTTTGGCGAGGCTGTGT
CAGATCACACGGAGCCTGCTTGGGAAGACCTACCGAGGAGTCTGCATGAGGTTTATTGTAGGCTTAAATGTGAG
GATGAAAACCTGTGAACATTTTCACAGGCCTCTGCGGCGTTGTGAAGCCAAGTGTTAGTTTCAGTCGAAAATGAAC
TTGGTGGCAATCAACGGGTTGCTTTTGAAGCCAAAAAAGTATCCCTAAAATCTTAGCAGAAGAACTTAAAGAA
ATTGATTATATTTTGTCTACAGATATGTATGGCCTTTGCAAGTCCATTCTGGATGTCTTTTCCCTAAGCATTTT
CATCAGAGAGTGTGTGAGAAAACCCCATGGCATGCAAAGAAATCCTCAAACCAATTACAAATCCTTCCGGTTT
TACAGATTTGCTTTGAAGGAGTACATCCACTTCTGTTTGAAGATGAAAGCGCACGCAACCGCCGGGAATCCACA
GACCTGTGGCTGAGTGCCATGCAAGCTTTCTCTCTCTTCCAACTACCCGGAGGAGTTTGAAGAGCTGCTCCAC
CAGGAGGAGGACAACTACAACAGGGAACCTCAAAGCTCTAGAGTCTGAAAAGGATGAAAGGGGCAGGGGGAGAGGC
AGCAGGATAAAAGGAATAGAAGGGAAATTTGGCATGCTGGCACCCAAACAGGGATGATGAAAATATGGACAAGACC
CACCTGTGCTTCATCCGGCTTCTGGAGAATTGCATTGATCAATTCTACGTGTACAGGAACCCAGAAGACTACAAG
AGGCTCTTTTTCCGTTTCATGAATGTCTCATCAAGAGGTGCAAAGAACCCTCATCCCCAGCATTGGAAACACA
GTAGCCCTCCTGGAGTTCCAGTTTCACTCACTGTGGGGTGGTGTCTGGCCCGCCTCTGGAAGAATGTCAATTCTATGC
CTCCCCAAGAGCTACATTGCACTCTTGCACTACTGGGAGTTCTCTGTTAGCAAGAAGGACAAGGAGCTTGGGGAT
GTGTTCTCCATCATTTCAGGAATACAAACCAAGGACGTGACAAGAGCCATTTCAGGATTTCCGGTTCCATCTCTCC
TACCTCGCCAAGGTGCTATGTGGCTATGAGAATGTGAACCTCAACGTCCTGCTTGATGCCTTCAGTGAAATAGAC
TATGTGGTCTCGGGTGAGGCTGAGCGGACACTGGTGCTGTGCTTGGTGATGCTAGTGAATGCTGAGGAGATCCTG
CAGCCATACTGCAAGCCTCTCCTGTATCGCCACTTCCGGGAGATTGAGTCAAGGCTGCAGCTCATGAGCATGGAC
TGCCCTGGCCAGGTTCCCGAGAGGCTCCTGAAGGTGGTGAAGCGGGTCTTGGTGGCAGTCAATGTGAAGTCTGTG
GCTGAGGCACTGCAGGACCTGCTCTTTGAGCGGGATGAAGAGTACCTAATGGACTGTGACTGGCGGTGGGACCCT
GTGCACACCAAAGGTTCCATAGTCCGTGGCCTCTATTATGAGGAGGTGAGCTAAACCGCCTGCTCTGTTTGGAC
CCTGTGGACTACTTTGCTGAACCTGAGTGTGAGTTTGGCCAGGATGAGATGGATGAACTGGCATTAGAAGACCGA
GACCACGTCCTGGCCACCATTCTTTCCAAAAGCAACGGAAGGCCTCCATACAGCGGAAGTTGAGGAGGGCATGC
CTGGTGGTGTCTCTGTGCATCAGTTGGAGGAGAAGAGTGGGCACCCAGATGGAGCGTGTGAGGAGGAGGCCAGG
GAGCCAGGGCTGGGAACCTTCAAAAAGGCAGACGTGGACAGGACCCAGTGTGACCTATGTGGAGTGAAGTTTACC
CGTGGCCAGAGAACTATTTTCAGCCCCAGCAAAGCGTTTGAAGGGGCAGCTTCCGAGGTGGCAGTCTTTCCAGG
GCTGAGCTGGAAGGGAGGAGTGTGAGGAGGGAACAGCGAGTCTTACGAGCAGCATATCCATCTAGAACACCAC
CAGAGGCAGCAAGTGGCCTACCAGAAATACTCAGAATTTTTCCACGAGAAGGTGGACCCGGCCATTGATGAAGGC
AAGCTGGTGGTGCAGGACATCGAGCAAAGTGTATGGATCCACAGTCACGTGGGTCCAAGGAGCACAGCCACATG
CTGCAGAAGGTCCAGGAGCACATCAAGAGGGTTTCGGATATGTTGGAGGACCTCTACAGGCGGAAGGCCTGGGCT

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FIGURE 1034C

GGCGCGGAGGAGGCGATGACTCGGCTGGTCAACATTCTGATCCTGTCAGTCAGGGATGCACGAGACTGGTTGATG
AAAACAGAGACCCGCTTAAAGAAGGAAGGTATTGTTTCAGGAAGATGATTATGAAAATGAAGTTGAAGACTTTGGT
GAGCTTCGGCCTAGAAGGCGTTCTCGGAAATGTGGAAAGCAGAGAAAAATACTAATGTCCACACAGCTGCAGCCTC
CTCATCCTTCGGAACATTCCATTCTGACTTAGAATTCTGAGCGCTGGGGCAGAAGACAAAAAGAATGTGAATTAG
CATTTTAAAAATAGGGGAGTCTAACAACACCATTGCTTTTTATTCTCATTACTTCTCTTCAGTGGCTTAGGATC
TGATTGCTCCCTCACCTCTAAAGTGTTTCCAAGTAGAGTCTGGCAGTATTAGTTTCCCCACAAACAAATTCAGG
TAGAGAAGTTGTAGTCGAAGGGAATGTTGGGACTCCTCACTGCATGGTCCCTGGGGTGTCTGGCTCATCCCCATC
ATGACGTGAGTTGGTAGCAGAGGACTAGGTGTTAGGACAGACTCTCCTCACCTCAGTTGCTGCTGCTCTGGGCCA
GGAAATCTCTCTATGGATTCCCTCATCTCCTGCCACACTGCTGCAGCATCAAGTGTGCTATGAGAGCTGTATGTG
CCCAGGGGTGGGCCCTGCCACTGGCCACCCCGAGCCAGGACGCATTCTGGTCACTCTGAGCCCACTTGTAGTG
TAGCTTCTTCTGTAGAGATGTTAGCCTTTTCTCTGTGGCGACTTTTCTGCCTTCCCTTCTTCTGTTTTTTGT
GATCATTCTTAGCTACCTGTGCCAAGTCACAGTTAGACTACCTCAGAATGTAGTCAAGAATTCACCCAGTGTTCT
TTGGATGTCCCTTCCCTAGGGGGAAAGGCTGGGGAATGTTGCTGGGAGCATTCCCAGCTGCCTCTCCAAAGTGGT
CCTAACTCTGCCCTTGGCTATGGTGCAGACATTCCAAAAAGTGTGTTGTATACAGCCCTGTACATCTAGTTTTCTT
GGTTCTCCCTGGCAAGTTCGCTACCCTAGCTTAGGCTGACGTTCTGATGAGTCTCTGCTTGCTGAGCTCATCACT
GTGGGATGGTGACCTGCAGAGCTGCAGATTGGAGCAAGTGACAGAGGAGGGAGCCAGCTAAGCCAAATCCGTCA
CTGCCACTTGGCTGGCAGGCCTTATAAGAGGGCGGATCTGGGCCCGTTTGAGGAGGCCATTGCCTACCCTCTCC
CCACAGTGAGCCAGCAGCCATCAGCTGATCCACCTGGGAAACCTTCATGCCTCTCTGATGGTTACTGCCCACCC
TTACCCACCCCTCAGCTCAGCCTGGTATGGAAAGCAAGGTGCACGTTGGTCTTTGATTGTTCTGTCTCACAGC
AGAGCCAGCTTTCCCCCATGTTGCTGCTGCTTTTGCTGCTCATGCTGCTTGTGTTTTCTCTTCTTATCTTTT
CAAATTGTTTCTTGAATGCTTGTTCCAATTTTCTTAGATTATGTTCTAATTTTATTCCAGGTGTTTTT
TTTCTTACTTGACAGAAAAAAGAAAACCCCAACAATATCTTGCTGTATTATCACATTTTTTATAAAGTTAAAGC
ATTTCTCTT

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FIGURE 1035

GSPKRGRAYKEWKIISSFTPTSTDSREENRPLVEVPLDKPGSSQGRSLMVNPEMYKLLNGELKQLYTAITRARVN
LWIFDENREKRAPAFKYFIRPDFVQVVKTDENKDFDDSMFVKSTPAEWIAQGDYYAKHQCWKVAACYQKGGAF
EKEKLALAHDTALSMKSKKVPKEKQLEYLELAKTYLECKEPTLSLKCLSYAKEFQLSAQLCERLGKIRDAAYFY
KRSQCYKDAFRCFEQIQEFDLALKMYCQEELFEEAAIAVEKYEEMLKTKTLPISKLSYSASQFYLEAAAKYLSAN
KMKEMMAVLSKLDIEDQLVFLKSRKRLAEAADLLNREGRRREEAALLMKQHGCLEAARLTADKDFQASCLLGAAR
LNVARSDIEHTKDILREALDICYQTGQLSGIAEAHFLQGVLIRDFQKLRD AFFKFDTLNHSAGVVEALYEAASQ
CEAEPEKILGLAPGGLEILLSLVRALKRVTNNAEKEMVKSCFEFFGISQVDAKYCQIAQNPGPILRIIFDLDLN
LREKKT KDHF LIMTDQVKLALNKHLLGRLCQITRSLLGKTYRGVCMRFIVGLKCEDENCEHFHRPLRRCEAKCLV
QSKMNLVAINGLLLEAKKVFPKILAEELKEIDYILSTD MYGLCKSILDVLF PKHFHQRVLS ENPMACKEILKPNY
KSFRFYRFALKEYIHFLFENESARNRRESTDLWLSAMQAFLLSNYPEEF EKLLHQEEDNYNRELKALESEKDER
GRGRGSRIKGIEGKFGMLAPNRDDENMDKTHLCFIRLLENCIDQFYVYRNPEDYKRLFFRFMNVLIKRCKEPLIP
SIGNTVALLEFQFIHCGVVLARLWKNVILCLPKSYIALHYWEFLFSKKDKELGDVFSIIQEYKPKDVTRAIQDF
RFHLSYLAKVLCGYENVNFNVLLDAFSEIDYVVSGEAERTLVLCVLMVNAEEILQPYCKPLLYRHFREIESRLQ
LMSMDCPGQVPERLLKVVKRVLVAVNVKSVAEALQDLLFERDEEYLMDCDWRWDPVHTKGSIVRGLYYEEVRLNR
LLCLDPVDYFAEPECEFGQDEMDLALED RDHVLATILSQQRKASTQRKLRRACL VVSLCISWRRRVGTQMERV
REEAREPRAGNFKKADVDR TQCDLCGVKFTRGPENYFSPSKAFEGAASEVAVLSRAELEREECQERNSESYEQHI
HLEHHQRQQVAYQKYSEFFHEKVDPAIDEGKLVVDIEQSVWIHSHVGSKEHSHMLQKVQEHIKRVSDMVEDLYR
RKAWAGAEAMTRLVNII LLSVRDARDWLMKTETRLKKEGIVQEDDYENEVEDEFGELRPRRRSRKCGKQRKY

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FIGURE 1036A

GGCCGCGAGTGCATCTTCCACGAACCTAATTCATCTCTCCAGCAAAGGACACATCTCTCCAGCAAAGGACACCTC
TCTCCAGCAAAGGACACCTGCAGAGATGTCCCCAGTCTTCACTTCTATGTTCTGTCCTCTGGCCATGAGGGGGC
AGCCTCTGGACACACTCGGAGGAACTGCAAGGGAACTGCCAGAGCTGCAGGGCGTCGAGACTGAACTGTGCTA
CAACGTGAACTGGACAGCTGAGGCCCTCCCCAGTGCTGAGGAGACAAAGAAGCTGATGTGGCTGTTTGGTTGCC
CTTACTGCTGGATGATGTTGCTCGGGAGTCTGGCTCCTTCTGGCTCCAATGACCTGCTGCTGGAGGTGGGGC
CAGGCTGAACTTCTCCACCCCAACATCCACCAACATCGTGTCACTGTGCCGCGCCACTGGGCTGGGGCCTGTGGA
TCGTGTGGAGACCACCGGCTACCGGCTCTCGTTTGCCACCCCCGTCAGCTGAGGTGGAAGCCATTGCTCT
GGCTACCCTGCACGACCGGATGACAGAGCAGCACTTCCCCATCCCATCCAGAGTTTCTCCCCTGAGAGCATGCC
GGAACCCCTCAATGGCCCTATCAATATACTGGGTGAGGGCCGGCTTGCCTGGAGAAGGCCAACCAGGAGCTTGG
TCTGGCTTTAGACTCTTGGGACCTAGACTTCTACACCAAGCGCTTCCAGGAGCTACAGCGGAACCCGAGCACTGT
GGAGGCCTTTGACTTGGCGCAGTCCAATAGCGAGCACAGCCGACACTGGTTCTTCAAGGGCCAGCTCCACGTGGA
TGGGCAGAAGCTGGTGCACTCACTGTTTGTAGTCCATCATGAGCACCCAGGAATCCTCGAACCCCAACAACGTCTCT
CAAATTCTGTGATAACAGCAGTGCAATCCAGGGAAAGGAAGTCCGATTCTACGGCCTGAGGACCCACACGGCC
AAGCCGCTTCCAGCAACAGCAAGGGCTGAGACATGTTGTCTTACAGCAGAGACTCACAACCTTTCCACAGGAGT
ATGCCCTTTAGTGGTGAACCACTGGCACAGGGGGCCGGATTGAGATGTCCAGTGACAGGCCGCGGGGCCCCA
CGTGGTGGCTGGCACTGCCGGCTATTGCTTTGGAATCTGCATATTCCAGGTTACAATCTGCCCTGGGAGGATCT
AAGCTTCCAGTATCCTGGGAATTTTGGCCGGCCCTGGAGGTTGCCATTGAAGCCAGTAATGGAGCTTCTGACTA
TGGCAACAAGTTTGGGAACCACTGCTGGCTGGCTTCCCGCTCCTTGGGCCTCCAGCTCCAGACGGCCAGCG
GCGTGAGTGGATCAAGCCCATCATGTTTGTAGTGGGGCATTGGGTCCATGGAAGCTGACCACATAAGCAAGGAGGC
CCCAGAGCCAGGCATGGAAGTTGTAAAGGTTGGAGGTCCCGTCTACAGGATTGGAGTTGGAGGTGGAGCTGCTTC
ATCTGTGCAGGTGCAGGGAGATAACACCACTGACCTGGACTTTGGGGCTGTGCAGCGAGGAGACCCGGAGATGGA
ACAGAAGATGAACCGTGTGATCAGGGCTTGTGTGGAGGCCCCAAGGAAACCCCATCTGCAGCCTTCATGATCA
GGGCGCTGGTGGCAATGGCAATGTCTTAAAGAGCTGAGTGACCCAGCTGGAGCCATCATTTACACAGCCGCTT
CCAGCTTGGGGACCAACCCCTGAATGCCCTGGAAATCTGGGGGGCTGAGTACCAGGAATCAAATGCTCTTCTGCT
GAGGTCCCCCAACCGGACTTCTGACTCATGTCACTGCCCCGTGAACGTTGCCCGGCTTGCTTCTGGGCAACAT
CACTGGAGACCGGAGAATAGTGTGGTGGACGATCGGGAGTGTCTGTGAGAAGAATGGCCAGGGGGATGCCCC
CCCGACACCCCGCAACCCCTGTGGACCTGGAGCTCGAATGGGTGCTGGGCAAGATGCCTCGGAAGGAGTTCTT
CCTGCAGAGGAAGCCCCCATGTGTCAGCCTCTGGCCTTGCCCCAGGGCTGAGCGTGACACAGGCTCTGGAGAG
GGTCTGAGGCTGCCCGCCGTGGCCAGCAAGCGCTACCTCACCAATAAGGTGGACCGCTCCGTGGGAGGCCTGGT
GGCCAGCAGCAGTGGCTGGGGCCCTGCAAACCTCTTGGCAGATGTAGCGGTTGTGGCACTGAGCCATGAGGA
GCTCATAGGGGCTGCCACAGCCTTGGGAGAACAGCCAGTCAAGAGCCTGCTGGACCCAAAAGTCGCCCGCCGGCT
GGCCGTGGCCGAAGCCCTCACCAACCTGGTGTGTTGCTCTGGTCACTGACCTCCGGGATGTGAAGTGTAGCGGGAA
CTGGATGTGGGCAGCAAGCTCCAGGGGAGGGCGCAGCTTTGGCGGATGCCTGTGAGGCTATGGTGGCAGTGAT
GGCAGCCCTGGGTGTGGCAGTGGATGGTGGCAAGGACTCCCTCAGCATGGCTGCTCGGGTGGCACTGAGACCGT
GCGGGCTCCTGGGTCACTGGTCACTCAGCCTATGCCGTCTGCCAGACATCACAGCCACTGTGACCCAGACCT
CAAGCATCCTGAAGGGAGAGGCCATCTGCTCTATGTGGCTCTGAGCCCTGGGCAGCACCGGCTCGGGGGCACAGC
TCTGGCCAGTGCTTCTCCAGCTTGGGGAACACCTCCAGACCTGGACCTTCTGAGAACTTGGTGGCGGCCTT
CAGCATCACTCAGGGGCTGCTGAAAGACCGCCTCTCTGCTCAGGCCACGATGTCACTGACGGAGGCCTCGTCAC
ATGCCCTGCTGGAGATGGCCTTTGCTGGAAATTGCGGGCTACAGGTGGATGTGCCTGTCCCCAGGGTTGATGTCT
GTCTGTGCTGTTTCGCTGAGGAGCCAGGCCTCGTGTGGAGGTGCAGGAGCCAGACCTGGCCAGGTGCTGAAGCG
TTACCGGGATGCTGGCCTCCATTGCTGGAGCTGGGCCACACAGGCGAGGCCGGGGCCCCACGCCATGGTCCGGGT
GTCAGTGAACGGGGCTGTGGTTCTGGAGGAGCCTGTTGGGGAGCTGCGAGCCCTCTGGGAGGAGACGAGTTTCCA
GCTGGACCGGCTACAGGCAGAGCCTCGCTGTGTGGCAGAGGAGGAACGGGGCCTGAGGGAGCGGATGGGGCCCAG
CTATTGCTGCCCCCACCTTTCCCAAAGCCTCCGTGCCCCGTGAGCCTGGTGGTCCCAGCCCCCAGTCCGCAT
CTTGCGAGAGGAGGGCAGTAATGGAGACCGGGAGATGGCCGATGCCTTCCACTTAGCTGGGTTTGGAGTATGGGA
CGTGACCATGCAGGACCTCTGCTCTGGGGCAATTGGGCTGGACACTTCCGTGGCGTGGCCTTCGTGGGCGGCTT
CAGCTATGCAGATGTCTGGGCTCTGCCAAAGGTGGGCAGCTGCTGTGACCTTTCATCCAGGGCTGGGGCTGA
GCTGAGGCGCTTCCGGAAGCGGCCAGACACCTTCAGCCTGGGCGTGTGTAATGGCTGTCAACTGCTGGCTCTGCT

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FIGURE 1036B

CGGCTGGGTGGGAGGCGACCCCAATGAGGATGCTGCAGAGATGGGCCCTGACTCCCAGCCAGCCGGCCAGGCCT
TCTGCTACGCCACAACCTGTCTGGGCGCTACGAGTCTCGCTGGGCCAGCGTGCCTGTGGGGCTGGGCCAGCCCT
GATGCTGCGAGGGATGGAGGGCGCCGTGCTGCCCCGTGTGGAGTGCACACGGGGAAGGTTACGTAGCATTTTCTTC
TCCGGAACCTCCAAGCTCAGATTGAGGCCAGGGGCTTGGCTCCACTGCACTGGGCTGATGATGACGGGAACCCAC
AGAGCAGTACCCTCTGAATCCCAATGGGTCCCCAGGGGGCGTGGCTGGCATCTGCTCCTGTGATGGCCGCCACCT
GGCTGTATGCTCACCCTGAGCGGGCCGTTAGGCCTTGGCAGTGGGCATGGCGACCCCTCCATTTGATACTCT
GACCACCTCCCCCTGGCTCCAGCTCTCTATCAATGCCCGAACTGGACCCTGGAAGGGAGCTGCTGACTGGCCAC
AGGGGCTCACCTGGGCCCCATGGCTTTTACCTAAGTGGGTCTGCCCTCCCCCTCCCCATGACCTTCAGGAGCACCC
CATATTATTTCCAAAAATATCTTGGACAGACAAGGACCAAAATGCCAAAATCTCAGCGGACTCGATGATCTGCCT
GCTGATGTTCTTCTGTGGCTGTGTCTATTTTCAGTTCTGCTCTAACATGGCATGCCCTTTTCTCAGCCCAGGAAA
CAGCATGTGGTTCAGAGAAAAGAGCGACAAGGAAAAGTTAGGACTCCTGAGGTCCGAACAGGGGCTTCTGTTGCC
CACTTCACAACACCCAGTGATCACCGGTGTGCAATTGCCTCCTTGGCTCTGAGGGATGTTTTGCGCTCCCTTTTC
TCATCATTGGGGTTAGCGGGTGACAGACAAATTCAGCAATAGTATGCAGATCAGCCCCTCACCACCTCATTGTTCT
CATCTGGAACGTAACTTTCTGGATTTCTCTTGAAGTGCTACACTGCACTGAATGTAAGGAATTGTTGCTTGTTGG
AAGTTTCTCAGCGTTTCTGGCTGTCTTAGGGCTGGCCTCAGAACCAGCATTCTGTTAATTTGCTTCTAAATTAG
CAGCTCTCTTTTTTTTTTTTTTTTTTTGAGGCAGTCTCACTCTGTCAACCAGGCTGGAGTGCAGTGGCGTGATCTCG
GCCACTGCAACCTCTGCCTCCTGGGTTCAAGCAATTTTCTGCTCAGCCTCCCGAGTAGCTGGGAGTACAGGC
ACACACCACCACCCAGCTAATTTTGTATTTTAGTAGAGATAGGGTTTACCGTGTCTCCAGGCTGGTCTC
AAACTCCTAACCTCAAGTGATTGCCTGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGTGGGAGCCACTACAGC
TGGCCAGCAGCTCTGTTTCTGATAGAGGTGGTTGGGGCTCTCATCCCTAGATCCTAACCTTTAGTATGCTGGA
ATTCTACTCTTCACTTACTGCATTGACTGTTGTTGATTAGTTATTATTGCAAAGCACTGCCACCGGCCTCAGGGA
GTTTATGTGTAATAGAATTAAAAATAATAGCTGTGTATAACACTTAGCTCAAGCCACGCATGTGTGAGGCATTTG
GTATGTATCTGAATTAATTCTCACTAAAATTCAGCAAAGGACTTGATAGCCTCTCCCCGCCTTTTCAATAAAGGA
TGAATGAAGTTG

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FIGURE 1037

AASASSTNLIHLSSKGHISPAKDTSLQQRTPAEMSPVLHFYVRPSGHEGAASGHTRRKLOQKLPQLQGVETELCY
NVNWTAEALPSAEETKKLMWLFGCPLLLDDVARESWLLPGSNDLLLEVGPRLNFSPTPTSTNIVSVCRAATGLGPVD
RVETTRRYRLSFAHPPSAEVEAIALATLHDMTEQHFPHPHQSFSPESMPEPLNGPINILGEGRLALEKANQELG
LALDSWDLDFYTKRFQELQRNPSTVEAFDLAQSNSEHSRHWFFKGQLHVDGQKLVHSLFESIMSTQESSNPNNVL
KFCDNSSAIQGKEVRFLRPEDPTRPSRFQQQQGLRHVVFTAETHNFPTGVCPSGATTGTGGRIIRDVQCTGRGAH
VVAGTAGYCFGNLHIPGYNLEWEDLSFYQPGNFARPLEVAIEASNGASDYGNKFGEPLVLAGFARSIGLQLPDGQR
REWIKPIMFSGGIGSMEADHISKEAPEPGMEVVKVGGPVYRIGVGGGAASSVQVQGDNTSDLDGAVQRGDPPEME
QKMNRVIRACVEAPKGNPICS LHDQAGGNGNVLKELSDPAGAI IYTSRFQLGDPTLNALEIWGAEYQESNALLL
RSPNRDFLTHVSARERCPCACFVGTITGDRRIVLVDDRECPVRRNGQGDAPPTPPPTPVDLELEWVLGKMPRKEFF
LQRKPPMLQPLALPPGLSVHQALERVRLRLPAVASKRYLTNKVDRSVGGLVAQQQCVGPLQTPADVAVVALSHEE
LIGAATALGEQPVKSLDDPKVAARLAVAEALTNLVFALVTDLRDVKCSGNMWAALKPGEAALADACEAMVAVM
AALGVAVDGGKDSLMAARVGTETVRAPGSLVISAYAVCPDITATVTPDLKHPEGRGHLLYVALSPGQHRLGGTA
LAQCFSQLGEHPPDLDPENLVRAFSITQGLLKDRLLCSGHDVSDGGLVTCLLEMAFAGNCGLQVDVPVPRVDVL
SVLFAEEPGLVLEVQEPDLAQVLKRYRDAGLHCLLELGHTEAGPHAMVRVSVNGAVVLEEPVGE LRALWEETSQ
LDRLQAEPRCVAEEERGLRERMGPSYCLPPTFPKASVPREPGGPSPRVAILREEGSNGDREMADAFHLAGFEVWD
VTMQDLCSGAIGLDTFRGVAFVGGFSYADVLGSAKGWAAAVTFHPRAGAELRRFRKRPDTFSLGVCNGCQLLALL
GWVGGDPNEDAAEMGPDSQPARPGLLLRRHNLSGRYESRWASVRVGPALMLRCMEGAVLPVWSAHGEGYVAFSS
PELQAQIEARGLAPLHWADDDGNPTEQYPLNPNGSPGGVAGICSCDGRHLAVMPHPERAVRPQWAWRPPFPDTL
TTSPWLQLSINARNWTLEGSC

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FIGURE 1038A

CCGCGCGCGGCGCCCGAGGCGGCGGCGGGGACGCGGGGACGCGAGGACGCGGCTTTGTGCAGGCGGGTTCGCGGG
GCGCCCATGGCGGAGTGCAGCGCGGGGGGGCGCCCGCGGGGCGCCTGCCACCTCCCCGGGCGCGCCCTCGGC
GCCAAGGGCGCCCTGAAAGCCGAGTGGGGGAAGCGGTGGCGGGGAGGTCGCCACGCGGCGGGCGCGC
TATGACAGCGGCGGGGTTTCCACGGAGACTGCAGCCTCGGCGTGTCCGGGGACGAAGCCCGGGCTAGCCCTACC
AGGGGACCCGCGGCGTTCGCTCGCCCCGACCCCGAGCGCGGTCTGTACCTCCCCGGGAGAGCAAGCCG
GGCGGCGCTGCCCGCGGAGCAGCATCATCAAGGATGGTACAAAACAGAAGAGGGAACGGAAGAACAGTCTCA
TTCAGCAGCATGCCAACAGAGAAGAAGATCAGCAGTGCAAGTGATGTATTAATTCAATGGTTGAGGGTTTCAGAA
CTCAAAAAGGTTTCGCTCCAACCTAGAAATTTATCATAGGTACTTTTTACTGGATGCTGACATGCAGAGCCTAAGG
TGGGAGCCATCTAAGAAGGATTCTGAGAAAGCCAAGATTGACATTAAATCCATCAAGGAAGTGAGAACAGGAAAA
AACACAGACATATTCCGCAGCAATGGCATTCTGACCAGATATCTGAAGATTGTGCGTTTTCCGTCTATATATGGA
GAGAATTATGAGTCACTGGATTGGTTGCCAATCCGCAGATGTTGCAACATCTGGGTTACAGGACTGCGGTAC
CTAATTTCTTATGGAACATACACTTGATATGTTAGAAAGTAGCCAAGATAACATGAGGACTTCTTGGGTTTCA
CAAATGTTTAGTGAATTTGATGTAGATAACCTTGACATATAACTCTGTGTAATGCTGTGCAATGTATCAGAAAC
CTCAATCCTGGTTTAAAAACGAGCAAAATTGAGCTTAAGTTCAAAGAATTGCATAAATCAAAGGACAAAAGCTGGT
ACCGAGGTACAAAAGGAAGAATTTATTGAGGTTTTTCATGAGCTTTGTACTAGACCTGAAATTTATTTCTTTTA
GTTCAAGTTTCAAGCAATAAAGAATTCCTTGATACCAAGGACCTTATGATGTTTCTTGAGGCAGAACAGGGTGTG
GCACATATAAATGAGGAAATAAGCCTTGAAATTTATCACAATATGAACCATCCAAAGAGGGTCAGGAAAAGGGC
TGGCTCTCCATAGACGGGTTCACTAATTACCTTATGTACCTGACTGTATATATTCGATCCAGAACATAAGAAG
GTCTGTGAGGATATGAAGCAACCTCTGTCTCATTACTTTATAAATCATCTCATAATACATACTTAATAGAGGAT
CAGTTCCGAGGTCCCTCCGACATCACAGGATATATTCGAGCTCTTAAATGGGTTGCCGAGTGTGAATTAGAT
GTATGGGATGGGCGGACAATGAACCTGTAATTTACACAGGCCACACCATGACCTCTCAGATAGTTTTCCGCAGT
GTCATTGATATTATTAACAAGTATGCATTCTTTGCTTCAGAGTATCCTCTTATCTGTGTTTAGAAAACCACTGT
TCCATTAAACAACAGAAGGTAATGGTTCAGCACATGAAGAACTTTTAGGAGACAAGCTCTATACAACATCACCC
AATGTTGAGGAATCTATCTACCATCCCCAGATGTCTGAAAGGGGAAATACTAATTAAGCAAAGAAGCTGTCC
TCAAATTGCTCTGGGGTAGAAGGAGATGTTACTGACGAAGATGAAGGAGCAGAAATGTCTCAGAGGATGGGAAAA
GAGAACATGGAGCAACCCAATAATGTGCCTGTGAAGCGATTTAGCTTTGTAAAGAACTGTCTGAAGTGGTCAGC
ATCTGCAAAATCAGTTCAGTTCAAAGAATTTAGGTGTGTTTTAGGTTTCAGAAGTACTGGGAAGTCTGTTCCTTT
AATGAAGTGCTTGCCAGCAAGTACGCCAATGAAATCCAGGGGACTTTGTAAATTACAACAAACGTTTTCTTGCT
AGGGTTTTTCCAGTCCAATGAGAATTGATTCCAGTAACATGAATCCTCAAGATTTTGGAAATGTGGTTGCCAA
ATTGTAGCCATGAATTTAGACACCAGGACTGATGATGGACCTGAATATTGGCTGGTTTAGGCAGAACGGAAAC
TGTGGCTATGTCTCCGGCCAGCCATCATGAGGGAGGAGGTCTCCTCTTCAGCGCCAATACAAAAGACTCTGTC
CCAGGGGTCTCACCTCAACTTCTTACATTAAATCATCAGTGGGCAGAACTTTCCAAGCCCAAGGATCAGGT
GCCAAAGGTGATGTGGTAGATCCTTATGTCTATGTTGAAATCCATGGAATCCCTGCTGATTGTGCAGAACAAAGG
ACAAAAACAGTGCACCAGAATGGAGACGCTCCCATTTTTGATGAAAGCTTTGAATTTCAAATCAACCTGCCTGAA
CTGGCCATGGTGCGCTTTGTAGTGTGGATGATGACTACATTGGGGATGAATTCATCGGCCAGTACACAATTCCC
TTTGAATGTTTACAGACGGGCTACCGCCATGTCCCCCTGCAGTCTTAACITGGAGAGGTCTTGCACATGCTTCT
TTATTTGTCCACGTGGCTATTACTAACCGAAGAGGAGGAGGAAAGCCTCATAAAGGGGCTTTCTGTGAGAAAA
GGGAAGAAATCCAGGGAATATGCATCTTTGAGAACACTGTGGATTAAACCGTGGATGAGGTATTCAAGAATGCC
CAGCCCCCTATACGGGATGCCACAGATCTGAGAGAAAACATGCAGAAATGCGGTGGTGTATTCAAGGAGCTGTGT
GGCTCTCTCTGTGGCCAATCTCATGAGTGCATGTTGGCGGTGTCTCCCCGCTTTCTGGGGCCCGATAACACA
CCCCTAGTGGTCTTAAATCTCAGCGAGCAGTACCCCAATGGAGCTGCAGGGAATTTGTGCCGGAGGTTCTGAAG
AAGATCGTAACAATTATGACATGATGATTGAGTCCCTCAAGGCGTTGATTGAAAAATGCAGATGCTGTATATGAA
AAGATCGTACATTGTGAGAAGGCAGCCATGGAATTCATGAACACTTGCACAGCATAGGCACCAAGGAAGGTTTG
AAGGAAAAGAAACTACAAAAGCAGTGGAGAGCTTTACCTGGAATATTACCATCTTAAAGGGACAAGCAGATCTT
TTGAAATATGCTAAGAATGAGACATTGGAGAACCTGAAACAAATCCATTTTGCTGCTGTTTATGTGGACTGAAT
AAACCAGGCACCGAAAATGCTGATGTCCAGAAGCCACGCGGAGCTTGGAAGTCATACCCGAAAAAGCAAACGAT
GAACTGGAGAAATGAGGAACTTACAATAAACCATTTATGGAGTTTATAACTCTAGGACCAATTGTAGTCAGATGG
GACATTTGCTTTGCACTCACTAATGAGAATAATATTCGGGATTTTAAAGCACAACCTGGAATAGCTAATTACAGTC

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FIGURE 1038B

TATTAAACTGTGAATGTATGTAGCAATCCTGCGTGTGAAGGCAAATAAACTCTTTAACAGGCAATTATATTGCT
GGCCAAAATATGCTATATTTGTATACAAAGACATTCTAACTCAGTTCCAGTATGAAGAAAGATTATTCACTCTAG
CTCCACTGAGAAACATTTTCCTAAGTGAAAACAATTTCTTAAGATGGAATGGATTGGATTGTCAAATTATTATT
TATTGGAGAAAAAACCTGATCTACACATTTTTACTTATATGGGGTTGCCAGAGTCTCTGGGTTCTAGATGATTT
TGGTGGCATGCTTGCTGAGCCATAATTACTAAAGAGAATGTAAGTGGACGGGTTCCCTGAATCCCCGGGGTCCTT
GGAGAGCCATCGAGGAGAATGTGCAATTGGACTGAAGCTCCCTGGCTGAAGATACATGCCGAGTCAGCACATGGG
TAGAGATGATGTAAAAGCAGCCAATCTGGAACAATACATTGTAAATAGTTTTTCATTGTATGAAGTAGTGTTC
CATTAAAAAGATGTTTTATGAT

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FIGURE 1039

PRAAARGGGGDAGTRGRGFVQAGRGAPMAECGRGGAAGGALPTSPGPALGAKGALKAGVGE GGGGGGRLGHGRAR
YDSGGVSNDCSLGVSGDEARASPTRGPRGVALAPTPSAVVCTLPRESKPGGLPRRSSIIKDGTKQKRERKKTIVS
FSSMPTEKKISSASDCINSMVEGSELKKVRSNSRIYHRYFLLDADMQSLRWEPSKKDSEKAKIDIKSIKEVRTGK
NTDIFRSNGISDQISEDCAFSVIYGENYESLDLVANSADVANIWVTGLRYLISYGKHTLDMLESSQDNMRTSWVS
QMFSEIDVDNLGHITLCNAVQCIRNLNPLKTSKIELKFELHKS KDKAGTEVTKEEFIEVFHELCTRPEIYFLL
VQFSSNKEFLDTKDLMMFLEAEQGVAHINEEISLEIIHKYEPSKEGQEKWLSIDGFTNYLMSPDCYIFDPEHKK
VCQDMKQPLSHYFINSSHNTYLIEDQFRGPSDITGYIRALKMGCRSVELDVWDGPDNEPVIYTGHTMTSQIVFRS
VIDIINKYAFFASEYPLIILCLENHCSIKQQKVMVQHMKLLGDKLYTTSPNVEESYLPSPDV LKGKILIKAKKLS
SNCSGVEGDVTDEDEGAEMSQRMGKENMEQPNNVPVKRFQLCKELSELVSICKSVQFKEFQVSFQVQKYWEVCSF
NEVLASKYANENPGDFVNYNKRFLARVFPSPMRIDSSNMNPQDFWKCCQIVAMNFQTPGLMMDLNIGWFRQNGN
CGYVLRPAIMREEVSFFSANTKDSVPGVSPQLLHIKIISGQNFPPKPKGSGAKGDVVDPYVYVEIHGIPADCAEQR
TKTVHQNGDAPIFDESFEFQINLPELAMVRVVLDDDIYIGDEFIGQYTIPFECLQTYRHPVPLQSLTGEVLAHAS
LFVHVAITNRRGGGKPHKRGLSVRKGKKSREYASLRTLWIKTVDEVFKNAQPPIRDATDLRENMQNAVVSFKELC
GLSSVANLMQCM LAVSPRFLGPDNTPLVVLNLSEQYPTMELQGIVPEVLKKIVTTYDMMIQSLKALIENADAVYE
KIVHCQKAAMEFHEHLHSIGTKEGLKERKLQKAVESFTWNITILKGQADLLKYAKNETLENLKQIHFAAVSCGLN
KPGTENADVQKPPRSLEVIPEKANDETGE

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FIGURE 1040

CTGCCCCCTTTCTTTTTTTCAGGCGGCCGGGAAGATGGCGGACATTTCAGACTGAGCGTGCCTACCAAAAGCAGCCG
ACCATCTTTCAAACAAGAAGAGGGTCCTGCTGGGAGAACTGGCAAGGAGAAGCTCCCGCGGTACTACAAGAAC
ATCGGTCTGGGCTTCAAGACACCCAAGGAGGCTATTGAGGGCACCTACATTGACAAGAAATGCCCCCTTCACTGGT
AATGTGTCCATTTCGAGGGCGGATCCTCTCTGGCGTGGTGACCAAGATGAAGATGCAGAGGACCATTGTCTATCCGC
CGAGACTATCTGCACTACATCCGCAAGTACAACCGCTTCGAGAAGCGCCACAAGAACATGTCTGTACACCTGTCC
CCCTGCTTCAGGGACGTCCAGATCGGTGACATCGTACAGTGGGCGAGTGCCGGCCTCTGAGCAAGACAGTGCGC
TTCAACGTGCTCAAGGTCACCAAGGCTGCCGGCACCAAGAAGCAGTTCCAGAAGTTCTGAGGCTGGACATCGGCC
CGCTCCCCACAATGAAATAAAGTTATTTTCTCATTCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1041

MADIQTERAYQKQPTIFQNKRVLLGETGKEKLPRYYKNIGLGFKTPKEAIEGTYIDKKCPFTGNVSIRGRILSG
VVTMKMQRTIVIRRDYLHYIRKYNRFEKRHKNMSVHLSPCFRDVQIGDIVTVGECRPLSKTVRFNVLKVTKAAG
TKKQFQKF

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FIGURE 1042A

GCCACCGCAGGGCTGCTCCAAGTGAGAATCGTGAGGGTGGCCAAGTCCAGTTTGGACCTCTGACCCTTGGGCAGC
ACCTCCCCGACAGCCGGCTCGGGACCCAACTCTGCGAGCCAGGTGAAAATGAGTTCTTCAGTAAGAAGAAAAGGCA
AGCCAGGCAAAGGAGGTGGAAAAGGGTCTTCTAGAGGAGGAAGAGGAGGCAGGAGTCACGCCAGTAAATCTCATG
GGAGTGGTGGCGGTGGCGGTGGTGGTGGTGGAGGTGGCGGCAACAGAAAGGCCTCCAGTAGAATATGGGATG
ATGGAGATGACTTTTGTATCTTCAGTGAATCAAGGCGCCCTTCCAGACCTAGCAACAGTAACATAAGCAAAGGAG
AGTCACGCCCCAAAATGGAAACCCAAAGCCAAAGTACCCCTTCAGACTCTACATATGACTTCTGAGAATCAAGAGA
AAGTGAAAGCTCTTCTCCGAGACCTGCAAGAACAAGATGCTGATGCTGGATCTGAAAGAGGCCTTTCTGGGGAGG
AGGAAGATGATGAGCCTGATTGCTGTAACGATGAGCGGTACTGGCCAGCTGGACAGGAACCTTCCCTCGTTCCCG
ACTTGGATCCTTTGGAATATGCTGGCTTAGCCTCAGTGGAGCCTTATGTTCCAGAATTTACAGTCTCCCCATTG
CAGTGCAAAAACCTTCCAGGTATGGTTTCAATACTGAACGCTGTCAAGCGGTCTGAGGATGTGTGATGGAGATG
TGGGAGCATCACTAGAGCATCTCCTTACCCAGTGTTTTTTCAGAGACATTTGGAGAGAGGATGAAGATCTCTGAGG
CAGTCAACCAGATAAGCTTGGATGAGTGTATGGAACAGCGACAGGAAGAGGCATTGCTCTCAAGTCCATCTGTG
GAGAAAAATTTATAGAAAGAATTCAGAACAGAGTCTGGACCATTGGGTTAGAACTGGAGTATCTGACAAGTAGAT
TCCGCAAATCCAAGCCAAAAGAAAGTACCAAAAATGTACAAGAGAATTCACTTGAAATCTGTAAATTTTACCTCA
AAGGAAATTGTAAATTTGGATCAAAATGCAGATTCAAACATGAAGTGCCCCCAAATCAAATTGTTGGAAGAATAG
AAAGAAGTGTAGATGATTCTCATCTTAATGCTATTGAAGATGCATCTTTTTTATATGAACCTGAAATTCGATTT
TCTAAAGACCACAAATATCCCTACCAAGCTCCGCTCGTGGCATTTTATTCACCAATGAGAACCTACCTCTGGCT
TGTCGTTTACATATTTCTGAGTTTCTTTATGACAAGGCCTTGACATTGCGGAACTTCGGAACCTGTCGTATAT
TCTTTGATAACCTTTTAGAGGAAGAGTCGGAATAGTCAAGTTACTAACGAATACCCACCACAAGTATAGTGAC
CCTCTGTGAACCTTTCTGCCAGTACCCTCTAGGACCAGAATAAATAATCCTGCCTGTCATAAAACAGTGATTCCA
AATAATTTCTTTTGTCTAATCAAATTCAGAAGTTGAAAAAGCATCAGAATCTGAGGAGTCAGATGAGGATGAC
GGTCTGCACCTGTTATAGTAGAGAATGAAAGCTATGTGAACCTTAAGAAAAAGATTTCGAAAAGATATGACTGG
CAGGCAAAGTCAGTACATGCTGAAAATGGTAAAATCTGCAAGCAGTTCCGAATGAAACAGGCTTCCAGACAGTTC
CAGTCCATTCTGCAAGAGAGGCAATCACTCCCTGCTTGGGAAGAAAGAGAAACCATTCTTAACCTTATTGCGTAAG
CACCAGGTGGTTGTCATAAGTGGTATGACTGGATGTGGGAAAACACACAAATTCCGAGTTTATTCTGGATGAT
TCTCTGAGTGGACCACCTGAGAAGGTAGCCAACATCATCTGTACCCAACCCGACGAATCTCTGCAATCTCTGTT
GCTGAACGCGTTGCTAAAGAAAGAGCAGAGAGGGTGGGTCTGACCCTGGGATACCAGATTGCGTTAGAAAGTGTC
AAGTCTCAGCCACCAGACTGTTATACTGCACCACGGGAGTGCTGCTGAGAAGGCTAGAAGGAGATACAGCTCTA
CAAGGAGTTTCCCATATCATTGTTGATGAAGTTCATGAGAGGACAGAAGAAAGTGACTTCTTGCTGCTAGTTTTG
AAGGACATTGTATCGCAGAGGCCAGGTCTTCAAGTTATTTAATGAGTGCAACTCTAAACGCTGAGCTTTTTTCA
GACTATTTTAAATTCCTGCCCCGTTATTACTATACCAGGTGCTACATTTCTGTTGATCAATTTTTTTTGAAGAT
GCAATTGCTGTGACAAGGTATGTATTACAGGATGGGAGCCCATATATGCGGTCCATGAAACAGATTTCAAAGGAA
AAGCTTAAAGCAAGGCGGAACAGAAGTGCATTTGAAGAAGTGGAAGAAGACCTAAGGCTCTCCCTTCACCTCCAG
GATCAGGATTCTGTCAAAGATGCAGTGCCAGATCAACAGTTAGATTTTAAGCAGCTCCTGGCCCGCTATAAAGGG
GTTAGCAAGTCAGTCATCAAAACAATGTCCATCATGGATTTTGAAGGTGAATCTTGAATTAATAGAGGCCTTA
TTAGAGTGGATTGTGGATGGAAAGCACTCCTACCCTCCAGGTGCTATACTTGTATTTTACCAGGACTAGCAGAA
ATCAAAATGCTTTATGAACAGCTACAGTCTAATTTCTTTTCAACAACAGACGTAGTAATCGATGTGTTATTAC
CCACTTCATTATCTTTATCCAGTGAAGAGCAGCAGGCTGTGTTTGTAAACCTCCTGCAGGAGTAACATAAGATT
ATAATTTCCACCAACATTGCTGAGACATCCATAACCATCGATGATGTTGTCTATGTTATCGATTCTGGGAAAATG
AAAGAAAAGAGATATGATGCCAGCAAAGGGATGGAAAGTCTAGAGGACACCTTTGTATGTCAGCTAATGCTCTA
CAAAGGAAAGGCCGAGCAGGCCGTGTTGCATCTGGGGTCTGCTTCCATTTATTCACTAGCCATCACTACAATCAC
CAGCTTTTAAAACAACAGCTACCAGAAATACAAAGAGTGCCATTGGAACAGCTGTGTCTAAGAATTAATAATTTA
GAGATGTTTAGTGCTCATAATCTCCAGTCTGTGTTCTCTCGGCTCATTGAACCTCCACACACCGATTCTCTCGT
GCCTCAAAAATACGATTACGAGACTTAGGAGCATTAACTCCAGATGAAAGATTGACCCCTCTTGGGTATCATTG
GCCTCTCTGCCCCGTGGATGTGAGAATTGGCAAATAATGTGTTTGGGTCTATCTTCCGCTGTTTGGATCCTGCT
CTCACCATTGCTGCCAGTTTGGCTTTTAAGTCTCCGTTTGATCTCCCTGGGATAAAAAAGAAGAAGCTAACAG
AAAAAGCTGGAATTTGCATTGCAACAGTGATTATCTGGCCCTTCTACAAGCGTATAAGGGATGGCAGCTAAGT
ACAAAAGAAGGCGTGCTGCAAGTTATAATTACTGCAGACAAAACCTTCTGTCTGGAAGAGTTCTGCAGGAAATG

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FIGURE 1042B

GCCAGCCTCAAACGACAATTCACGGAAC TGTATCGGATATAGGGTTTGCAAGGGAAGGGCTCAGAGCAAGGGAA
ATTGAGAAAAGGGCCCAAGGAGGAGATGGTGTCTTAGATGCCACAGGAGAAGAGGCCAAACTCAAATGCTGAGAAC
CCCAAGCTGATATCAGCAATGCTGTGTGCTGCTTTGTATCCAAATGTAGTGCAGGTGAAAAGCCCAGAAGGAAAA
TTTCAGAAGACCAGTACTGGAGCTGTCAGAATGCAACCAAAATCAGCTGAGTTGAAGTTTGTACCAAGAACGAT
GGATATGTACACATTCAACCTTCATCAGTGAAC TATCAGGTGAGACACTTTGACAGCCCCCTACCTGTTGTACCAC
GAGAAGATAAAAACTAGTCGAGTATTCATCCGAGACTGCAGCATGGTGTCTGTGTACCCGCTGGTCTTGTTTGGA
GGAGGCCAAGTGAATGTGCAGCTTCAAAGAGGAGAGTTCGTTGTCTCCCTGGATGATGGTTGGATCCGTTTTGTA
GCTGCTTCCCATCAGGTGGCTGAACTGGTAAAGGAGCTTCGTTGTGAACTTGATCAGCTTCTCCAGGATAAAATT
AAAAACCAAGCATTGATCTGTGTACGTGTCTCGAGGATCCCGGATCATCAGCACAATTGTGAAACTTGTCAAC
ACACAATTAAAAAGCAGTCTTAGAGAGTGCTTGCTACTCACCTGCTTCTAGCTCACCTGGGAAATAACAGCAGAAC
CTCTACCTCGAACTAAAGACCTATTGGGGCTGGCCCTGGTGGAGGAGCCCAGGGCATGAAGCCCAAGGCAGCTGA
GGCAGTGTATATACCCTTAGGGCCATTCTAACAAAGCCTTGGCCACTCCCAGCACAATTTGGAGTGTCAAGGGT
GAGAGCCTAAAACCCAGCTTGCCTGTCTTTGTCTCTGTGATTGTTCTGGAGTGAATTAAGTTCACCTGATAACTC
AAAAGTGAATGTATAATAACAATTCTGTTTTAATCTGTGTATTCTTTTCTCCTACTTTTTACTGGGGTGAGAGGG
GCATGAAGAGAAATACGCCTTTTTTTTTTTCTTTTCCTGTGCGCAAGGCTCGACTGAGAGAAGTCAGAACAGAGA
AGGGGAAAAAAAACCCAAAATTATGTGAACAAGCAAAATTAATAATTTCATTTTAGGCTATTGGCTACTGAGTAAA
CTTGACTTGTGAGGGGTTTTTTATTTTTACTCATTAAAAGTCAACTTAAACCAAAAAATCTATGTCGGGTGCGGA
GAAAGAGGTAATGAAATGGCAGGAATTCGATATCAGCTTATC

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FIGURE 1043

HRRAAPSENREGGQVQFGPLTLGQHLPTAGSGPNSASQVKMSSSVRRKGKPGKGGGKGSSRGGRGGRSHASKSHG
SGGGGGGGGGGGGNRKASSRIWDDGDDFCIFSESRPSRPSNSNISKGESRPKWPKAKVPLQTLHMTSENQEK
VKALLRDLQEQDADAGSERGLSGEEEDDEPDCCNDERYWPAGQEPSLVPDLDPLEYAGLASVEPYVPEFTVSPFA
VQKLSRYGFNTERCQAVLRMCDGDVGASLEHLLTQCFSETFGERMKISEAVNQISLDECMEQRQEEAFALKSICG
EKFIERIQRNVWTIGLELEYLTSRFRKSKPKESTKNVQENSLEICKFYLKGNCKFGSKCRFKHEVPPNQIVGRIE
RSVDMILILMLLKMHLFLYELEIRFSKDHKYPYQAPLVAFYSTNENLPLACRLHISEFLYDKALTFAETSEPVVY
SLITLLEESEIVKLLTNTHHKYSDPPVNFLPVPSTRINNPACHKTVIPNNSFVSNQIPEVEKASESEESDEDD
GPAPVIVENESYVNLKKKISKRYDWQAKSVHAENGKICKQFRMKQASRQFQSILQERQSLPAWEERETILNLLRK
HQVVVISGMTGCGKTTQIPQFILDLSLGPPEKVANI ICTQPRRISAI SVAERVAKERAERVGLTVGYQIRLESV
KSSATRLLYCTTGVLRLRLEGDTALQGVSHIIVDEVHERTEESDFLLVLKDIVSQRPGLQVILMSATLNAELFS
DYFNSCPVITIPGRTFPVDQFFLEDAIVTRYVLQDGSPLYMRSMKQISKEKLKARRNRTAFEEVEEDLRLSLHLQ
DQDSVKDAVPDQQLDFKQLLARYKGVSKSVIKTMSIMDFEKNLELIEALLEWIVDGKHSYPPGAILVFLPGLAE
IKMLYEQLSNSLNFNNRRSNRCVIHPLHSSLSSEEQQAVFVKPPAGVTKIIISTNIAETSITIDDVVYVIDSGKM
KEKRYDASKGMESLEDTFVSQANALQRKGRAGRVASGVCFLFTSHHYNHQLLKQQLPEIQRPLEQLCLRIKIL
EMFSAHNLQSVFSRLIEPPHTDSL RASKIRLRDLGALT PDERLTPLGYHLASLPVDVRIGKLMFLGSI FRCLDPA
LTIAASLAFKSPFVSPWDKKEEANQKKLEFAFANS DY LALLQAYKGWQLSTKEGVRASYNCRQNF LSGRVLQEM
ASLKRQFTELLSDIGFAREGLRAREIEKRAQGGDGVLDATGEEANSNAENPKLISAMLCALYPNVVQVKSPEGK
FQKTSTGAVRMQPKSAELKFVTKNDGYVHIHPSSVNYQVRHFDSPYLLYHEKIKTSRVFIRDCSMVSVYPLVLF
GGQVNVQLQRGEFVVS LDDGWIRFVAASHQVAELVKELRCELDQLLDQKIKNPSIDLCTCPRGSR IISTIVKLVT
TQ

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FIGURE 1044A

GCGTGACCTCGCCTGATCCAGTTGTTAGAGTTGGAAGCTTGGCAGTTGGCCTCCCTTCTTCCCATGGAGGACGG
GGGCTTAACAGCCTTTGAAGAGGACCAGAGATGCCTTTCCAGAGCCTCCCTTGCCAGTGTGACAGAGGGCCC
AGCTGCACAGACCACTGCTGAGCCCAGCAGGTCGTTTTCTCAGCCCACAGACACCTGAGCAGAAGGAATGGGCT
TTCCAGACTCTGCCAGAGCAGGACAGCGCTCTCTGAAGACAGATGGAGCTCCTATTGTCTATCATCACTGGCTGC
CCAGAATATTTGTACAAGTAACTGCACTGCCCTGCTGCCCTGAGCACACGGACCCGTCGTAACCGCGGGGACAG
TGTGTCTGTGCTCCCTGCTGCGGGGACTGTCTCAGGGTGGTCTCACCTCTGCTTCCGGCCCTGTGTGCAA
CCCTAACAAGGCCATCTTCACGGTGGATGCCAAGACCACAGAGATCCTCGTTGCTAACGACAAAGCTTGCGGGCT
CCTGGGGTACAGCAGCCAGGACCTGATTGGCCAGAAGCTCACGCAGTTCTTTCTGAGGTGAGATTCTGATGTGGT
GGAGGCCCTCAGCGAGGAGCACATGGAGGCCGACGGCCACGCTGCGGTGGTGTGTTGGCACGGTGGTGGACATCAT
CACCCGTAGTGGGGAGAAGATTCCAGTGTCTGTGTGGATGAAGAGGATGCGGCAGGAGCGCCGCTATGCTGCGT
GGTGGTCTGGAGCCCGTGGAGAGGGTCTCGACCTGGGTGCTTTCCAGAGCGATGGCACCGTCACGTCATGTGA
CAGTCTCTTTGCTCATCTTCACGGGTACGTGTCTGGGGAGGACGTGGCTGGGCAGCATATCACAGACCTGATCCC
TTCTGTGCAGCTCCCTCCTTCTGGCCAGCACATCCCAAAGAATCTCAAGATTAGAGGTCTGTTGGAAGAGCCAG
GGACGGTACCACCTTCCCTCTGAGCTTAAAGCTGAAATCCCAACCCAGCAGCGAGGAGGCGACCACCGGTGAGGC
GGCCCTGTGAGCGGCTACCGGGCATCTGTCTGGGTGTTCTGCACCATCAGTGGCCTCATCACCTCCTGCCGGA
TGGGACCATCCACGGCATCAACCACAGCTTCGCGCTGACACTGTTTGGTTACGGAAGACGGAGCTCCTGGGCAA
GAATATCACTTTCTGATTCTGTTTCTACAGCTACATGGACCTTGCGTACAACAGCTCATTACAGCTCCCAGA
CCTGGCCAGCTGCCTGGACGTGCGCAATGAGAGTGGGTGTGGGGAGAGAACCTTGGACCCGTGGCAGGGCCAGGA
CCCAGCTGAGGGGGGCCAGGATCCAAGGATTAATGTCGTGCTTGTGTTGGCCACGTTGTGCCCCGAGATGAGAT
CCGGAAGCTGATGGAAGCCAAGACATCTTCACCGGACTCAGACTGAGCTGATTGCTGGAGGCCAGCTCCTTTC
CTGCTCTCACCTCAGCCTGCTCCAGGGGTGGACAATGTCCAGAAAGGAAGCCTGCCAGTGCACGGTGAACAGGC
GCTGCCCAAGGACCAGCAAATCACTGCCTTGGGGAGAGAGGAACCTGTGGCAATAGAGAGCCCCGGACAGGATCT
TCTGGGAGAAAGCAGGTCTGAACAGTGGATGTGAAGCCATTTGCTTCTGCGAAGATTCTGAAGCTCCAGTCCC
AGCTGAGGATGGGGGAGTGTGCTGGCATGTGTGGCTGTGTGAGAAGGCCAGCTAGAGCGGATGGGAGTCAG
TGGTCCCAGCGTTACAGACCTTTGGGCTGGGGCTGCCGTGGCCAAGCCCCAGGCCAAGGGTCAGCTGGCGGGGG
CAGCTCCTGATGCACTGCCCTTGCTATGGGAGTGAATGGGGCTTGTGGTGGCGAAGGCAGGACTTGGCCCCCAG
CCCCCTGTTGGATGGCAGGCCTCTCGTTTGGGACACCTACTCTAGATGAGCCGTGGCTGGGAGTGGAAAACGACCG
AGAAGAGCTGCAGACCTGCTTGATTAGGAGCAGCTGTCCAGTTGAGCCTTGCGGGAGCCCTGGATGTCCCCCA
CGCCGAACCTCGTTCCGACAGAGTGGCAGGCTGTACCGCTCCTATGTCTCCTGCGATCTGGGAGGCAGAGACCT
GTGCGGTGGCTGCACGGGCAGCTCCTCAGCCTGCTATGCCTTGGCCACGGACCTCCCTGGGGGCTTGGAAAGCAGT
GGAGGCCAGGAGGTGATGTGAATTCGTTTTCTTGAACCTCAAGGAACTCTTTTTCAGTGACCAGACAGACCA
AACGTCATCAAATTGTTCTGTGCTACGCTGAACTCAGAGAGACACCTCTTCTTGGCAGTGGGCTCCGATCC
AGATGTAGGCAGTCTCCAGGAACAGGGGTCGTGTCTTGGATGACAGGGAGCTGTACTACTGACCGGCACCTG
TGTGACCTTGGCCAAGGCCGACGGTTCCGGGAGAGCTGTGTGGGACATGATCCAACAGAACCGCTTGAGGTTTG
TTTGGTGTCTCTGAGCATTATGCAGCAAGCGACAGAGAAAGCCAGGACACGTTCTTCCATGTTGGATGCTGG
CCCTGAGGACACGTGCCCATCAGCAGAGGAGCCAAGGCTGAACGTCACGTCACCTCCACGCCCGTGTGCTGAT
GCGCGGGGCTGTGGCTGCAGCGGGAGATCCAGGAGGGTGCCTACTCCGGGAGCTGTACCATCGAGACGGCTT
ACGGCTGAGTATACAGTTTGAAGGTGAGGCGGGTGGAGCTCCAGGGCCCCACACCTCTGTTCTGTCTGTGGTGGT
GAAAGACCTCCTCCACAGCCAACGCGACTCAGCCGCCAGGACCCGCTGTCTTGGCAGCCTGCCCGGCTCCAC
CCACTCTACCGCTGCTGAGCTCACCGGACCCAGCCTGGTGAAGTGTCTCAGAGCCAGACCCTGGTTTGAAGAGCC
CCCCAAGGCTGTGGAACCTGGAGGGGTGGCGGCCTGTGAGGGCGAGTACTCCAAAAGTACAGTACCATGAGCCC
GCTGGGCAGTGGGGCCTTCGGCTTCGTGTGGACTGCTGTGGACAAGGAAAAAACAAGGAGGTGGTGGTGAAGTT
TATTAAGAAGGAGAAGGTCTTGGAGGATTGTGAGATTGAGGATCCCAAACCTTGGGAAAGTTACTTTAGAGATCGC
AATTCTATCCAGGGTGGAGCACGCCAATATCATCAAGTATTGGATATATTTGAAAACCAAGGGTCTTCCAGCT
TGTGATGGAGAAGCACGGCTCCGGCCTAGACCTCTTCGCTTTCATCGACCGCCACCCAGGCTGGATGAGCCCT
GGCGAGCTACATCTTCGACAAGTGAGAGCAGGCCAGACCGCTCTAGTGTGACAGTGGGATACCTGCGCTTGA
GGACATCATCCACCGTGACATCAAGGATGAGAACATCGTGATCGCTGAGGACTTCACAATCAAGCTGATAGACTT
TGGCTCGGCCGCTACTTGGAAAGGGGAAAATTATTTTATACTTTTTGTGGGACCATCGAGTACTGTGCACCGGA

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FIGURE 1044B

AGTTCTCATGGGGAATCCCTACAGAGGGCCGGAGCTGGAGATGTGGTCTCTGGGAGTCACTCTGTACACGCTGGT
CTTTGAGGAGAACCCCTTCTGTGAGCTGGAGGAGACCGTGGAGGCTGCCATACACCCGCCATACCTGGTGTCCTAA
AGAAGCTCATGAGCCTTGTGTCTGGGCTGCTGCAGCCAGTCCCTGAGAGACGCACCACCTTGGAGAAGCTGGTGAC
AGACCCGTGGGTAACACAGCCTGTGAATCTTGCTGACTATACATGGGAAGAGGTGTGTGAGTAAACAAGCCAGA
AAGTGGAGTTCTGTCCGCTGCGAGCCTGGAGATGGGGAACAGGAGCCTGAGTGATGTGGCCAGGCTCAGGAGCT
TTGTGGGGGCCCCGTTCCAGGCGAGGCTCCTAATGGCCAAGGCTGTTTGCATCCCGGGGATCCCCGCTGCTGAC
CAGCTAAACACCAATTTTTTCTGCTTTTCTCCACTTGGTTTGGAAAATCACACAGTTTTCAGGCTCCATCTGTT
TGGAGAAAATACATTCTGAAGCATCCCCAATTCACCTTCTAAAACTCATGTGCAGGTTTGATAAACACCAGAAC
AGAAGACAGTGATGCTGTATTATTTAGATTTATTACATAGATTTGGAATTCACTTTTTTCATGACCTAGAAAAA
AACATTCCAGTGTTCAACTGTTTTATATTATTAAAGGGCTTTTAATTTGTG

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FIGURE 1045

TTCATATTAAAAAATAGCTGGTAAATCTTTCTAGGTAGTAACTTATCCAAACAATACTTTGAGTATCATATTTT
GTGAATGACTTGCTTAAACTGGGAACTGAATATTCTTTTAAATCATATAATTCCTGTATTAAATGTGAAACAC
ACAGTCTCCAAAGTCACCTGATTCTCTGTGGAAAATGAAAGGCATTGAAGGAAACCAGATACATTAATACTTAGT
TTTGGTTGAAAGTGAACATTACTGTACTTAGAAGGGGCTTGGTTTATTTTATAGATATTTAAGCTATCATTAATT
TTAGACCAATGGCTAATAATAAGAGAGATTTTGGTTGCTCATTATGGAGAGACAAAGAACAGCATGGCATAAA
CAAACATCCCAGAAATAAATGAAAAGTTTAAAGTGATAAAATTGTGTTTCTATGAACCACTGTTGTACATGAAC
CAACATTGTGTTTCTTAGCTCTGACCTGTACAGTGAGGTACCTGTCAGGACCCCTAGTCTTGGCACTGGAAATGA
CAAAGTTCTCCTATTACTAAATTCTCATGCCTTCCTTTCTGACTTAGTAGATTGAAATGGTAGGTACTAATGA
TTTATGTTTGATAAACTTAAGTTCTGCTGATATCCTGTTACTGGTAATTCTGGTACCAAAATTTCAAACGGTTTG
ATTATTAGTAGCATTTTGGAGTACCTAGGTGCATATAATACAGTTAGCAGACCCCTTACAGAGTCAAAAGAGATTTT
GGAATCTGGTGATACTGTTGTTTATTACACTAGCCTATTACATTTTCTTCTTTATAATACTGTTTATGTGAGT
TTCATTGAAAATCGTGGCTCTATTGCTTTATTCATGGTTCCACAACCTCTTTTGTAACACCTTAATTTCTCTC
TTAGGTATTTTCTGTTAAATAAGATATCAAAGCATCAATCACAAGACAGAGAAAACGTATTAGGAAAACTTG
TATTAGTATATTCTAACTGAAATGGAAAACTCATTATTCAATTTTAAATAAAACTCCCAATGATCTTG
CTAAATTATCCCCTATTTAGAAGTAGAAAATAAGAGAAGAGTGCTTTCAAGGAAATTTGTCATATTCTCCCTTC
TATCTAGAAGTTGACAATGAATTGCAATAAACTAAGAAATACTGAATGCTGAAAAATACCATGAATTAATGTT
ATGGCTTCTTTATTTTGTATATCCATTCCCACAAAATTGAATTTAAGATTATTAATGAAAATTCTATATTAAGT
AATAATGCTTGTATTAGTAATGGGCAAAGAAGTCTTTCTTTGTTACATTAACCGTTAGTAAAGATGTACTTTGA
CATTTCTGATGTAAACCTATATGTAAATATTGTAATTTAAATATGATTGGACAGCTGTTAAGTTTGGGGAGGG
AAGCAGATGCCAGCGTTCTCTGCTGAAAAGACAAGATGGCGCTTGACGGACCACAGCAGATGGAGCTGGAGGAGG
AAAAGGCAGGCAGTGGACTCTGCCAGTATTATCTGTCCAAGATTGAAGAACTCCAGGGTCAACTGCAATATAAAT
TGGATGGGGGAAAGCCACAAGGAACAGTTCTGAACCTCCAGGTGCATTTGCAGCTGATTTTGAATGATAAGACCCA
AAACCTCTGGAGGCGGCAGGTGCACGGGAATGAACATAAATGTTAAAGTGTGCCTATTACAGGAGGAGCTACAGCT
GCTGCAGGAATAGGACTCCTGTGTGTCAGGGAAGTAGTCCAGGCCATGGGTAAGAAGAAAGTGTGGTCAAGGTGCA
TCTCAAGGACAAGTTTGTCTAGATGTGGACAAAAATATCAGCATCAGTGATGTGACACCCAGTTCTTGGTGGT
TCTAAGAAATGACAGCTACACTTTGCACAAGATCCTACCCAACAAGGTGGACTCATTGGTGTCACTGATGATGGT
GAAGAAAGTACCAGATTACGCTTATGAAATGATTGGTAGACTGGATAGGCAGATCAAGAAGATCAAGAAGTGTAT
CGACCTGCCTGCTAAGCATCCCAGCTCTTCAAAGCACTGGGCATTGCACAGCCCAAGGGAATGCTGCTTGGAG
AGACTGTTGGCTGGGCTCTGGCTCATCATAGGGACTGTGTACCTTTATTTCATGTCTCTGGCTCTCAATTGGTAC
AGAAATTCATTGGGGAATTTCTGTGATGGCAGAGAAAATGCTCATCTGTCTCATCTTCATGGATGAAATTGACTCTT
TTGGCTCCTCAGAGCTGGAGGGGATGCTGGAGGGAACAGTGAAGTGCAGCAGATGATGCTTCGAGGGTGGCTTT
GAGGCCACCAAGAGTATCACGGTTTATCACGGCTGCTAATACGATTGATATCCTGGACTCGGCCTGCTTTGCC
AGGGCACATTGACAGAAAAATTGAATTTCCCAACCTGCAATGAGTAGGCCTGGCTGGTCACTTTGAAGATTCAATC
TCAGAAATGAACCTGACCCAGGGGATCAACCTGAGAAAAATTGCTGAGCTTATGCCAGGAGCATCAGGCTGAAGT
GAAGGGCATGTGCACAGAAACCGGCATGTATGCCTGAGTAGCGAGTCCATGTCACTCAGAAGGACTTTGAGGTA
GTCCAAAGTCTATCTCATGCCAAAGGACAGTGAGGAAAAACATGTCCATCAAGAACTATGGAATTGAGGGCAC
ATCCTTTGTGTGTATCCCTACAATAAACTCAGTGGGACAAGCAAAAAAAAAAAAAAAAAA

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FIGURE 1046

MGKKKVLVKVHLKDKFVIDVDKNISISDVTSSLVVLNRNDSYTLHKILPNKVDSLVSMMVKKVPDSAYEMIGRL
DRQIKKIKEVIDLPAKHPELFKALGIAQPKGMLLGRDCWPGLWLIIGTVYLYSCLWL

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FIGURE 1047

GGCGCCATTTTGCTGGAGCCTGCGACCGAGTGGGAGTGGAGTGGAGCGGCTGTGGTTGCCGACTCTTCTCTTC
CCCACGGTCCAGTCAGCGGGTTAATTAGGCCATCGGCCCTCGAGCCGAGACTTGTCTCTTATTAGTTCTGGGGA
GCGCCTCGTCGACATGAGTGTGTGGAGGAAAACAACCTTCGAGGGCAGAGTGAGTACAAAGCCGCGGAGCCGTC
TAGGCGGGCGGCCAATGCTCGGGGTTTACGGGAACAAGCGGGTCGGGCGGGGTGCGGGTAGTCCCGCGAGGA
GCAACCTCTGGAGCCATCGCGATTGATTCCTCCCATCCCAAGATGGCTTCTGGGTTCCTCTCCCAACAC
CACGGATAACACCCCTCCCCCTTTTGGAGGCTGACTGATACCTGGACTTCTGGGTCTCTCTCCCTCCCCGCC
CCGATTGCTTCTCTCTTCTCCCCACCCCTGAGGCTTCTTATGTCTGCTCCGAGGTGTGGGTCCCGTCGCGG
TTGGGCGGGAGGAGGCGGCAGGGAGCTCCCTCCGTCGGATAGTGGTAGGTGCTTCTGCGGTGGCATTCTCG
CGACCCCGAGCATCGTAGAGGGTCTCGGATCGAAAGTGCGCGGGGCTGCTTTCGGGCGGGGAGAAGCTGGCGT
GGGACTAGCTGGGGCTGTGTCTCTTGGCTCTCTATTTAGTGAGCGGCCGCTCTCTGTGGAAACCGCGGCG
TTGCGTCTAAAAGGCGAAAGCCTTGAGGTTGAAGTGGGACGAGCCTAATGAAGTGGTTAGTCAACGACCGCAC
CGACCCCTAAGCGTCTTAAGACGAGAGCTGTGAGGGGAAACTACGCAAGGAGCCCTTTCCCTTAATGTCCCTT
CGACTTCTCTTCTCACTTCGAAATGAATGTGGAATGCTGTACGCCCTATTTTTCTAATTCCTCGATGTGGGTT
TTTTCTCTTTTATATCTCACTTTAATGCTCTTCTCTATGACCTTTCATCTAAAACTGACCACTCTCTT
ACAGGTTTTACGGTAAAAAATCGGTCTTTCTTTAATCTTACATAGCTGAACGAATTCATTGGCTCAG
TATTTTAAAGATAACTAGTCAGTATATACTGTTCTGTAACTTAAAAGATGACCTGAAAAATTAACAGGCCCTCTCC
CATTTCTTCTCTACTCTATCCCCACCGAAGAGGGCTCAGAAAAAGTTTTTATTAATATATTGGGGTCGGAG
AAATACAAACATCACAAAGATACGATATCCCCAGCTTAAATGTACTGGAACGTTTGTGAGTGTTCATTTC
AAAGTTTACCCTACATAGGGAATTGTAGAAGTGAGTTAGTAGAAGTGAGTTTCGTGTGAAACCTGGAAAGAAAC
AAAAGCCCCATGCAACACGTTCCGGGCTGTGTGTAGATGTTTATTCTAGTCACTAGGGGAAGCACATAAAAAA
CCTGAGGTGTGTGTGCTGAAGGGCGAATTTGTCTTTTGGGAGTTCAIGATATAAACATCTAGAACCAAAAAG
TCAATCAGAAGGTCAGTTAGGCTTTAGTCTCTTTGAGGAAAGATTTAAAGCAATAGACTATAATAGTTACCC
GGTAGACTAAAAAATTTGCCTTTAATCTTTTGATTGGAATTTTTTTTACAAAGTTTGGAGCATGGAACAAAT
GAAATTTGAACCTGCTTATTTTTAGGATGGTGTATTGATGGCCCCAACAGAACTTTCTAAATCATGCGATAAA
CATATATGATAGTAGTTGTAAATGCTTCTGTGTTTGAATGTTGAGTAATTATCGATAGAAATTTTGCTGTCC
ATTCATACATTCCTTCAATTAACCTTTCAATGTTAAAAAATGGGGGATTGATGTTTGGTTTGGTTTGTGGGGAGT
GAAGAGGACTACTGGAGGGACCTTGTTTGCTTGCTTTTTTTCTTTTTTAAATTTATCATCAAGTCTAGGAAAGGA
GTAAGTTGCCGACAATTGTCATTTTCCCTCCTAAGAAAGTAACATGTTAAGATTCCCACCTACCAGCCTGGGTG
ACAGTGAGACTCCCGTCTCNNNNNNNNNNNNNNNNNNNTCCCAACCACTTTAAGCTAAAGTATATGTAGGCA
TTAAAGATTTATTTAATAGAAATAAAGGGCCCTTACGGCCCTTGTGGTCATAGGAAATATTTTTTACAAAG
TGGTACCCAAGTGATTTT

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FIGURE 1048

RHFAGACDRVGVEWSGCGCRLFPLPHGPVSGGLIRPSALEPRLVSYLVLGASST

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FIGURE 1049

ATCAGCGAGGGATTACGGCGAAATGAGACTGTTTCGTGAGTGATGGCGTCCCGGGTTGCTTGCCGGTGCTGGCCG
CCGCCGGGAGAGCCCGGGGAGAGCAGAGGTGCTCATCAGCACTGTAGGCCCGGAAGATTGTGTGGTCCCGTTCC
TGACCCGGCCTAAGGTCCCTGTCTTGAGCTGGATAGCGGCAACTACCTCTTCTCCACTAGTGCAATCTGCCGAT
ATTTTTTTTTTTTATCTGGCTGGGAGCAAGATGACCTCACTAACCACTGGCTGGAAATGGGAAGCGACAGAGCTGC
AGCCAGCTTTGTCTGCTGCCCTGTACTATTTAGTGGTCCAAGGCAAGAAGGGGGAAGATGTTCTTGGTTCAGTGC
GGAGAGCCCTGACTCACATTGACCACAGCTTGAGTCGTGAGAACTGTCTTTCTGGCTGGGGAGACAGAATCTC
TAGCCGACATTGTTTTGTGGGGAGCCCTATACCCATTACTGCAAGATCCCGCCTACCTCCCTGAGGAGCTGAGTG
CCCTGCACAGCTGGTTCCAGACACTGAGTACCCAGGAACCATGTGAGCGAGCTGCAGAGACTGTACTGAAACAGC
AAGGTGTCCTGGCTCTCCGGCCTTACCTCCAAAAGCAGCCCCAGCCCCGCTGAGGGAAGGGCTGTACCA
ATGAGCCTGAGGAGGAGGAGCTGGCTACCTATCTGAGGAGGAGATTGCTATGGCTGTTACTGCTTGGGAGAAGG
GCCTAGAAAGTTTGGCCCCGCTGCGGCCCCAGCAGAATCCAGTGTTCCTGTGGCTGGAGAAAGGAATGTGCTCA
TCACCAAGTGCCTCCCTTACGTCAACAATGTCCCCACCTTGGGAACATCATTGGTTGTGTGCTCAGTGCCGATG
TCTTTGCCAGGTACTCTCGCCTCCGCCAGTGGAACACCTCTATCTGTGTGGGACAGATGAGTATGGTACAGCAA
CAGAGACCAAGGCTCTGGAGGAGGGACTAACCCCCAGGAGATCTGCGACAAGTACCACATCATCCATGCTGACA
TCTACCGCTGGTTTTAACATTTCTGTTTGATATTTTTGGTGCACCACTCCACAGCAGACCAAAATCACCAGG
ACATTTTCAGCAGTTGCTGAAACGAGGTTTTGTGCTGCAAGATACTGTGGAGCAACTGCGATGTGAGCACTGTG
CTCGCTTCCTGGCTGACCGCTTCGTGGAGGGCGTGTGTCCTTCTGTGGCTATGAGGAGGCTCGGGGTGACCACT
GTGACAAGTGTGGCAAGCTCATCAATGCTGTGAGCTTAAGAAGCCTCAGTGAAAGCTGCCGATCATGCCCTG
TGGTGCAGTCGAGCCAGCACCTGTTTCTGGACCTGCCTAAGCTGGAGAAGCGACTGGAGGAGTGGTTGGGGAGGA
CATTGCCTGGCAGTGACTGGACACCCAAATGCCAGTTTATACCCGTTCTTGGCTTCGGGATGGCCTCAAGCCAC
GCTGCATAACCCGAGACCTCAAATGGGGAACCCCTGTACCTTAGAAGGTTTGAAGACAAGGTATTCTATGTCT
GGTTTGATGCCACTATTGGCTATCTGTCCATCACAGCCAACTACACAGACCAGTGGGAGAGATGGTGGAAGAACC
CAGAGCAAGTGGACCTGTATCAGTTTCATGGCCAAAGACAATGTTTCCTTTCCATAGCTTAGTCTTTCTTGTCTAG
CCCTAGGAGCTGAGGATAACTATACCTTGGTCAGCCACCTCATTGCTACAGAGTACCTGAACATATGAGGATGGGA
AATTCTCTAAGAGCCGCGGTGTGGGAGTGTGGGGACATGGCCCCAGGACACGGGGATCCCTGCTGACATCTGGC
GCTTCTATCTGCTGTACATTCGGCCTGAGGGCCAGGACAGTGCTTTCTCTGGACGGACCTGCTGCTGAAGAATA
ATTCTGAGCTGCTTAACAACCTGGGCAACTTCATCAACAGAGCTGGGATGTTTGTGTCTAAGTTCTTTGGGGGCT
ATGTGCCTGAGATGGTGCTCACCCTGATGATCAGCGCCTGCTGGCCCATGTACCCCTGGAGCTCCAGCACTATC
ACCAGCTACTTGAGAAGGTTCCGATCCGGGATGCCTTGCGCAGTATCCTCACCATATCTCGACATGGCAACCAAT
ATATTCAGGTGAATGAGCCCTGGAAGCGGATTAAAGGCAGTGAGGCTGACAGGCAACGGGCAGGAACAGTGACTG
GCTTGGCAGTGAATATAGCTGCCTTGCTCTGTGTCATGCTTCAGCCTTACATGCCCACGGTTAGTGCCACAATCC
AGGCCCAGCTGCAGCTCCACCTCCAGCCTGCAGTATCCTGCTGACAACTTCTGTGTACCTTACCAGCAGGAC
ACCAGATTGGCACAGTCAGTCCCTTGTTCCAAAATTTGGAATGACCAGATTGAAAGTTTAAAGGCAGCGCTTG
GAGGGGGCCAGGCAAAAACGTCCCCGAAGCCAGCAGTTGTAGAGACTGTTACAACAGCCAAGCCACAGCAGATAC
AAGCGCTGATGGATGAAGTGACAAAACAAGGAAACATTGTCCGAGAACTGAAAGCACAAAAGGCAGACAAGAACG
AGGTTGCTGCGGAGGTGGCGAAACTCTTGATCTAAAGAAACAGTTGGCTGTAGCTGAGGGGAAACCCCTGAAG
CCCCTAAAGGCAAGAAGAAAAGTAAAGACCTTGGCTCATAGAAAGTCACTTTAATAGATAGGGACAGTAATAA
ATAAATGTACAACTCTCTATA

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FIGURE 1050

MRLFVSDGVPGLPVLAAAAGRARGRAEVLISTVGPEDCVVPFLTRPKVPVLQLDSGNYLFSTSAICRYFFLLSGW
EQDDLINQWLEWEATELQPALSAALYYLVVQGKKGEDVLGSVRRALTHIDHLSRQNCPPFLAGETESLADIVLWG
ALYPLLQDPAYLPEELSALHSWFQTLSTQEPQRAAETVLKQQGVLAALRPYLQKQPQSPAEGRAVTNEPEEEEL
ATLSEEEIAMAVTAWEGLESPLPRLPQQNPVLPVAGERNVLITSALPYVNNVPHLGNIIGCVLSADVFARYSRL
RQWNTILYLCGTDEYGTATETKALEEGLTPQEICDKYHIIHADIYRWFNISFDIFGRTTTTQQTKITQDIFQQLLK
RGFVLQDTVEQLRCEHCARFLADRFVEGVCPFCGYEEARGDQCDKCGKLINAVELKKPQCKVCRSCPVVQSSQHL
FLDLPKLEKRLEEWLGRITLPGSDWTPNAQFITRSWLRDGLKPRCITRDLKWGTPVPLEGFEDKVIFYVWFDAITIGY
LSITANYTDQWERWWKNPEQVDLYQFMAKDNVPFHSLVFPCSALGAEDNYTLVSHLIATEYINNYEDGKFSKSRGV
GVFGDMAQDTGIPADIWRFYLLYIRPEGQDSAFSWTDLLLKNSELLNNLGNFINRAGMFVSKFFGGYVPEMVLT
PDDQRLLAHVTLLELQHYHQLLEKVRIRDALRSILTISRHGNQYIQVNEPWKRIKGSEADRQRAGTVTGLAVNIAA
LLSVMLQPYMPTVSATIQAQLQLPPPACSIILLTNFLCTLPAGHQIGTVSPLEFQKLENDQIESLRQRFGGGQAKTS
PKPAVVETVTTAKPQQIQALMDEVTKQGNIVRELKAQKADKNEVAAEVAKLLDLKKQLAVAEGKPPPEAPKGKKKK

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FIGURE 1051

CAGGAGAAGCTGACCAGCCGCAAGATGGACAGCCGCTGGGGCGGGCGCAGCGAGTCCATCAATGTGACCCCTCAAC
GTGGAGCAGGCAGCCTACACCCGTGATGCCCTGGCCAAGGGGCTCTATGCCCGCCTCTTCGACTTCCTCGTGGAG
GCCATCAACCGTGCTATGCAGAAACCCAGGAAGAGTACAGCATCGGTGTGCTGGACATTTACGGCTTCGAGATC
TTCCAGAAAAATGGCTTCGAGCAGTTTTGCATCAACTTCGTCAATGAGAAGCTGCAGCAAATCTTTATCGAACTT
ACCCCTGAAGGCCGAGCAGGAGGAGTATGTGCAGGAAGGCATCCGCTGGACTCCAATCCAGTACTTCAACAACAAG
GTCGTCTGTGACCTCATCGAAACAAGCTGAGCCCCCAGGCATCATGAGCGTCTTGGACGACGTGTGCGCCACC
ATGCACGCCACGGCGGGGAGCAGACCAGACACTGCTGCAGAAGCTGCAGGCGGTGTGGGGACCCACGAGCAT
TTCAACAGCTGGAGCGCCGGCTTCGTATCCACCACTACGCTGGCAAGGTCTCCTACGACGTACGCGGCTTCTGC
GAGAGGAACCGAGACGTTCTCTTCTCCGACCTCATAGAGCTGATGCAGTCCAGTGACCAGGCCTTCTCCGGATG
CTCTTCCCCGAGAAGCTGGATGGAGACAAGAAGGGGCGCCCCAGCACCGCCGGCTCCAAGATCAAGAAACAAGCC
AACGACCTGGTGGCCACACTGATGAGGTGCACACCCCACTACATCCGCTGCATCAAACCCAACGAGACCAAGCAC
GCCCCGAGACTGGGAGGAGAACAGAGTCCAGCACCAAGTGAATACCTGGGCCTGAAGGAAAACATCAGGGTGC GC
AGAGCCGGCTTCGCCTACCGCCGCCAGTTCGCCAAATTCCTGCAGAGGTATGCCATTCTGACCCCCGAGACGTGG
CCGCGGTGGCGTGGGGACGAACGCCAGGGCGTCCAGCACCTGCTTCGGGCGGTCAACATGGAGCCCGACCAAGTAC
CAGATGGGGAGCACCAAGGTCTTTGTCAAGAACCAGAGTTCGCTTTTCTCTGGAGGAGGTGCGAGAGCGAAAG
TTGATGGCTTTGCCGAACCATCCAGAAGGCCTGGCGGCGCCACGTGGCTGTCCGGAAGTACGAGGAGATGCGG
GAGGAAGCTTCCAACATCTGCTGAACAAGAAGGAGCGGAGGCGCAACAGCATCAATCGGAACCTTCGTGGGGAC
TACCTGGGGCTGGAGGAGCGGCCCGAGTGCCTCAGTTCCTGGGCAAGAAGGAGCGGGTGGACTTCGCCGATTTCG
GTCACCAAGTACGACCGCCGCTTCAAGCCCATCAAGCGGACTTGATCCTGACGCCCCAAGTGTGTGTATGTGATT
GGGCGAGAGAAGATGAAGAAGGGACCTGAGAAAGGTCCAGTGTGTGAAATCTTGAAGAAGAAATTGGACATCCAG
GCTCTGCGGGGGGTCTCCCTCAGCACGCGACAGGACGACTTCTTCATCCTCCAAGAGGATGCCGCGACAGCTTC
CTGGAGAGCGTCTTCAAGACCGAGTTTGTGAGCCTTCTGTGCAAGCGCTTCGAGGAGGCGACGCGGAGGCCCTG
CCCCTCACCTTCAGCGACACACTACAGTTTCGGGTGAAGAAGGAGGGCTGGGGCGGTGGCGGCACCCGACGCGTC
ACCTTCTCCCGCGGCTTCGGCGACTTGGCAGTGTCTCAAGGTTGGCGGTTCGACCCCTACGGTCAGCGTGGGCGAT
GGGCTGCCCAAGAACTCCAAGCCTACCGGAAAGGGATTGGCCAAGGGTAAACCTCGGAGGTTCGTCCTCAAGCCCT
ACCCGGGCGGCCCCCTGGCGCCCCCAAGGCATGGATCGAAATGGGGCCCCCTCTGCCCACAGGGGGGGGGCCCC
TGCCCCCTGGAGAAATTCATTTGGCCCAGGGGGCACCCACAGGCCTCCCCGGCCCTCCGTCCACATCCCTGGGAT
GCCAGCAGACGACCCCGGGCACGTCCGCCCTCAGAGCACAAACAGAAATTCCTCAACGTGCTGACCAGGGGATG
GCCGGCATGCAGAGGAAGCGCAGCGTGGGGCAACGGCCAGTGCCTGTGGGCGGACCCAAAGCCCCAGCCTCGGACA
CATGGTCCCAGGTGCCGGGCCCTATACCACTACGTGGGCAAGATGTGGACGAGCTGAGCTTCAACGTGAACGAG
GTCATTGAGATCCTCATGGAAGATCCCTCGGGCTGGTGAAGGGCCGGCTTCACGGCCAGGAGGGCCTTTTCCCA
GGAAACTACGTGGAGAAGATCTGAGCTGGGCCCTGGGATACTGCCTTCTCTTTCGCCCGCCTATCTGCCTGCCGG
CCTGGTGGGGAGCCAGGCCCTGCCAATGAAAGCCTCGTTTACCTGGGCTGCAATAGCCTAAAGTCCAATCCTTT
GGCCTCCAGTCTTGGCCAGGCCCTGGGTACCCAGGTCACTGGTGCAGCCCCCGCCCTGGGCCCTGGTTTTCTT
CCAACATCACACCTGCTGCCCATTTGTCCAAAAGTGTGTGTGTCAAAGGGGACTAACAGCAGAAATTTACCTCCCAA
CTGCCATGTGATTAAAGAAATGGGTCTTGAGTCTGTGCTGTGGCAAAGTTCAGGCACAGTTGGGGAGGGGGG
CCGGAATCCGC

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FIGURE 1052A

TCGAGACCAAAAAAGATGACATTAACAAAAATGATGCGGAGAAACGGCGGCGGGCGGGCGGCATCGGCAGCAGT
AGCAGAGGCTGTAGCATCGGACACCTCCTCTCTCCCGCAATCCGGTTCTCTTCCCCCTCCTTCTCACTGTTTG
TTGTGTGTTTGTATGTGTTAAAGCAGGAGCGAGAACCCGAGCAGCGCCATGAGCAACACTACCGTCGTCCCCAGCA
CTGCAGGTCCGGGCCCCAGCGCGGGCCCGGTGGCGGAANNNNNNNNNNNNNNNNNNNNNNNNCGGCACCGAGGTA
ATCCAGGTGACTAATGTCTCCCCGAGCGCTAGCTCTGAGCAGATGCGGACTCTCTTCGGTTTCCTAGGCAAGATC
GACGAACTGCGCCTCTTCCCGCCGGATGATTGCGCTTTGCCAGTCTCATCTCGTGTCTGCTTTGTTAAGTTCCAT
GATCCAGACTCAGCAGTTGTGGCACAGCATCTGACAAACACTGTATTGTTGACAGAGCTTTGATAGTCGTACCA
TATGCAGAAGGTTTGTGCTTTGTTTAACTACCTATGTGGGCATCCTAAGATGACCATCTACCTCAGTAGATGTAG
AGTGAGCATTAGTAGCATGTTAAATCTAAGCTATTAACATTTTTAAACCTTGTTATACGAGTCCGTAATTTT
TGCTTGCAGATTTTTTTAATTCTAAAAATTAGAAATTAGGTCTGTTATTATAAGGTATTTACCTTTTGTCTTCT
TTTAAACATTTTTAAGTTGTTTAAACCATGTCCCTTATTGTAACCTCCGAGATACATCTACTTAGTTAATTT
AATGTTAAGTTTTATGAAAAAGCCCTGAAGGTAAATGATTCACTCCATGTATGCTTACAGAGCCTTCAAATAAAT
GCATGATGTTATTTCTGTTTTAAATAAATGAGTAGGTTGATTTTATTTCTTAAAGCTTCTCACATTGATAATC
TGGAAAAAAGCAACACATTGAATTTAGTATACCAAGGGTTCAGTGATTTTGGTTTTCTGTAAGTTCAAGA
TTTCTGTAGCTTAGGTGCCAATGGGCACTGGGTGTTTTATTTTATGCCAGATTTTCTTGTTTCTTCTTGCTAT
ATTTCTAGAATATCTCTAATAATAAATTTCTCTCTGTTATTTGTGTGTGTGATTTTTATAGTGGAGAAGGCA
AATGCAAAACCTTCCAGATGCCTGAAAAACAGTGGTCTCTGCAGCTACAGGGGATTCTAGACATTAACATAA
GGCCAGCAAGCACTCAAGTGCCCCAAGTGTTCCTGGTGAACCATTTGTTAACTACATTTCTCTCTTTTAC
ATTTTAGGCTGTTAAAGTAATTTGACAGAAAAAATGAGCAGGTTTTTGGATCTAAAAGCCACTGTGACAAGA
AATTTTAATACCATTTTGTAAAATTTTCTAAGGCGTATTTTATAATTAGTTTGTTCCTAATGTACTGCTACTTGA
TTTGCATTTTGGTAACTATAAATTTTACTCGAATCACTGAAATATGATAAACTGCTGGATTTAAGTTAATAAT
TTAATATGCTGACCAGGATTTAAATGCTTTCCCTTTCCCTAATAAACTGGTCAGTGGAAGTGAATCTTAATAT
TGTTTCAATTTAGATGCTATCTGAAATCTTTGAAAACAAATGTGAGCATTTACACCATACCTTGTAAGTTGTGA
AATGTCTAGTCTTAACAGAGAAGTTGCCTCTGGTTTTCTAAAGAAATTAACCTATATTTTATAAATGGGTAAAG
CATGTTATGTAATAGTACCTCTGTCTCCATGATATTAAGTGTATGAGCCAGTTTTAAGGTTTTGTAATGTATA
GATAGATAAATTTTTGAGTTAGTGTGTTTTGGTTAAGCAATTTCTTTTATGTCAGTGTGCCTGTTGTAGGATAAG
ACCATCAACAGAAAATTTACAGAATTCAAATTCAGGATGAATAAAATAGAGTATAGGTCTTGGAACAAGGGTCAA
ATCATGTGAGTAATATGTAACATTTTGGTTAGCCTGTAAATTTAAATTTTTTATTGGCTAAGTATTATAGTTC
CCAATCCCTGAACATAATACAGTATATCATATAAATGACTTTCATAAATATTTTCAGGCCATAGTAATTTTTCTA
GACCTATTTTTGGAAGTGAAGTATTTAGGAATATACAGTATATAGAATTAGGGGAATATTTCAATCAGAATCTA
TTGTTGGTGAATTTAATCTGGTATGATATGCTGTATTAATGTTACCTCCAGTAAATACAATCCCTCCAGATTT
AGCTATTACACTTCGGTGTAGCTCTTGGTCACTGTTTTAGAACAGTAGACATAGTCTACGGTAAGGAATAGTCT
TAATTGGTAAACTAAGATAGCTGAATTTGGAAGGAACCTCTAATAGTAATGGATTGGGGATTTTTTAGGTTCC
TTGGTTAATGTTTGTCTTTTGTCTGTTTCTTTTCTTTTCAATTTCTACACATTCATGCAGIATTTTATGTTCT
ATCAAAGCAGCAGTAAAAAAATACTCTTGACGCATGAAAATTAACCTGGTGAGGGGCCCTCATTGCTATTTTTAA
TTGTAGTTTTATTTTTAAATAGTCTTTTTTAAATCAGAGGATCAGATGCATGACTTTTTTTTTTAAATGGATGCA
GATCTTCTATCAGGTGTCTCACAATAAATCAAGAGGATTTAGTTTGCCAGAAATGTTGCAATGCACTAATTT
GAGTAAGATGTTGATACTGAATATATCCTCTTGAGACATAATTTGCATGCAAAATATCCCATAACTCTTGTAG
GTTTGTAAATATTGATGCATTACTGCCCTATATCTAAATGATCTTCTCCCCCTTCCCTCCATAACTCTTGGTAT
CTAAATTGATGACAGCTCTGACACAAGCAAGATAACAGTGTGTGTAGTATACATTTGTTTATATTATCGGCAC
TCTCAGTATAGGTGGAAGGAACCATACCTTTATTTAACAGTGGTTTTCTTTTTTGTGTGTGTGTGTACAGTT
CTTTTCCCTGGTTTACGCTGAACATATATACCAGGCCCTGCTGAAAATACCACCAACAGTTTTCTTCTGCAGCTT
ATCCAGTTTCTCTTAAGTGCCCTGTACATATTGTATGTTTTATGATGAGATGCAGTTTCTTAATATGTATTACAG
AAATACTACTGGTATTTGCAATATGTAGTTTAAATGTATTATTGAACTCTCATTTTGGGGGCTTGGGCACATTA
ACAGATTAATCCATCTGTATAGGGCTTTTGTGTGGATAGAATTTAAATGTCTACATAAATATTGTTTTAGG
ACCTTAGATTTTATCTGAATACACAGATTAGGCTTTAAAAACAGATATATATGTCATTTTGGCTTAAGGAGTT
TGGCTAAGTTAGCTTTCAACTGGCACTGTATGGCAGCATTTTTTGGTATGGTTAGCATGGCACATGGCGAAACA
TAAAGCATTTTACTGTACAGGTAAGGAATGTGCCATGTTGTTTTACCTATCTCTTCTCTCTCACTCCCATGC

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FIGURE 1052B

ACACATCCTGTGTGTATTTCAGAGACCTTCAGAAACATTCATATTCATTTTCATGAGTCAGCAAAGCCCTACGCT
TGATTCCAACAGAATATTTCCCTTTACATACTTTCTTCTCTTAATTTTACAAAATTTGTATGGTAGGTGTAAAAG
AAAATCATAGTAACGTGACCATATTATTAACCCCTAAATCAAACTTTTTTTGTCTTGTGTATCTTGATTTTTCTG
TGTGCTTTATAGTGAAGCAGCCGACACGAGTCGTTGTTTCATAAAACAGCTTTTGAAAGTTGAGAGCACACCCCTG
GAGAACCGACTGTGCTTGCTTACGTTTGGTTTCATGACTTAAAAATCGAGTACAGGAGTTATTCCTGATGAAGCTA
AAGCTTTGTCTCTGTTGGCACCAGCTAATGCAGTGGCAGGTCTTCTGCCTGGTGGTGGACTCCTGCCTACTCCTA
ACCCACTTACCCAGATTGGCGCTGTTCCACTGGCTGCTTTGGGGGCTCCTACTCTTGATCCTGCCCTTGCTGCAC
TTGGGCTTCCTGGAGCAAACCTGAACTCTCAGTCTCTTGCTGCAGATCAGTTGCTGAAGCTTATGAGTACTGTTG
ATCCCAAGTTGAATCATGTAGCTGCTGGTCTCGTTTCACCAAGTCTGAAATCGGATACCTCTAGTAAAGAAATAG
AGGAAGCTATGAAAAGAGTACGAGAAGCACAGTCCCTAATTTCTGCTGCTATAGAACCAGATAAGAAAGAAGAAA
AAAGAAGGCATT

1169/2682
FIGURE 1053

RDQKKMTLTKMMRRNGGGGAASAVAEAVASDTLLSPAIRFLFPLLLTVCCVFDVLKQEREPEQRHEQHYRRPQH
CRSGPQRRARWRXXXXXXXXXAPR

1170/2682
FIGURE 1054

CGGAAAAAAAAATGTTGAAGCAGATCGCCAGGAAAGCTCTTCATTGGTGGGCTTAATACGGAACAAATGAGA
AAGCTCTTGAAGCAGTATTTGGCAAATATGGACGAATAGTGAAGTACTCTTGATGAAAGACCGTGAAACCAACA
AATCAAGAGGATTTGCTTTTGTACCTTTGAAAGCCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAA
AGTCATTAGATGGAAAAGCCATCAAGGTGGAACAAGCCACCAACCATCATTTGAAAGTGGTAGACGTGGACCGC
CTCCACCTCCAAGAAGTAGAGGCCCTCCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACCGGGGAC
CTCCCTCAGGGGAGGACACATGGATGACGGTGGATATTCATGAATTTAACATGAGTCTTCCAGGGGACCAC
TCCCACTAAAAAGAGGACCACCACCAAGAGTGGGGTCTCTCTTAAGAGATCTGCACCTTCAGGACCAGTTC
GCAGTAGCAGTGGAAATGGGAGGAAGAGCTCCTGTATCAGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGG
AACCCTGCCCTCTCGTAGAGATGTTTATTTGTCTCCAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAA
GCAGAGATTACCCAAGTTCTCGTGATACTAGAGATTATGCACCACCACCAGAGATTATACTTACCGTGATTATG
GTCATTCCAGTTCACGTGATGACTATCCATCAAGAGAATATAGCGATAGAGATGGATATGGTCGTGATCGTGACT
ATTCAGATCATCCAAGTGGAGGTTCTTACAGAGATTCATATGAGAGTTATGGTAACTCACGTAGTGCTCCACCTA
CACGAGGGCCCCCGCCATCTTATGGTGAAGCAGTCGCTATGATGATTACAGCAGCTCACGTGACGGATATGGTG
GAAGTCGAGACAGTTACTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTCGTGATCGGGTGGCAGACAAGAAA
GAGGGCTTCCCCCTTCTATGGAAGGGGTACCCTCCTCCAGTGATTCTACAGCAGTTCAGCCGCGGAGCAC
CAAGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGAGGCAGAAGCAGATACTAGAAACAAACAAAAC
TTTGGACCAAAATCCCAGTTCAAAGAAACAAAAGTGGAACTATTCTATCATAACTACCCAGGACTACTAAAA
GGAAAAATTGTGTTACTTTTTTTAAATTCCCTGTTAAGTCCCCCTCCATAATTTTTATGTTCTTGTGAGGAAAA
AGTAAACATGTTTAAATTTTATTTGACTTCTGCATTGCTTTCAACAAGCAAATGTTAAATGTGTTAAGACTTGT
ACTAGTGTGTAACTTTCCAAGTAAAGTATCCCCTAAAGGCCACTTCCTATCTGATTTTTCCAGCAAATGAGG
CAGGCAATTCTAGTCTTCCACAAAACATCTAGCCATCTAAAATGGAGAGATGAATCATTCTACCTATACAAACAA
GCTAGCTATTAGAGGGTGGTTGGGGTATGCTACTCATAAGATTTTCAAGGTGTCTTCCAAGTAAATCTCAATGTT
CTCAGTACGAAAAACCTGAAATCACATGCCATGTGTAAGGAAAGTGCTATTCACCCAGTAAACCAAAAAAGCAA
TGGATAATGCTGGCCATTTTGCCCTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCCTTTCCCTTCCCCCA
ATAAGACCATTTAAGTGTGTGTTAAACAACCTACAGAATACTAAGTAAAAAGTTTGGCCAAACCAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1055

MVEADRPGLKFIGGLNTETNEKALEAVFGKYGRIVEVLLMKDRETNKSRGFAFVTFESPADAKDAARDMNGKSLD
GKAIKVEQATKPSFESGRRGPPPPPSRGPPRGLRGGRGSGGTRGPPSRGGHMDGGYSMNFNMSSSRGPLPVK
RGPPPSGGPPPKRSAPSGPVRSSSGMGGRAPVSRGRDSYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDY
PSSRDTRDYAPPPRDYTYRDYGHSSSRDDYPSREYSDRDGYGRDRDYSDHPGGSYRDSYESYGNRSAPPTRGP
FPSYGGSSRYDDYSSSRDGYGGSRDYSSSSRDLYSSGRDRVGRQERGLPPSMERGYPPPRDSYSSSSRGAPRG
GRGGSRSRGGGRSRY

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FIGURE 1056

ATTTTGTGGAATAGAGTTGATCGCTGTCTCCTCCGCAAAGCATTTTAACTCGAATAAGCAAATGCCGCCTCTGTT
TGAACGTTTTTGGTATTTACAAGAGAGAAATCATTTTACCTAAGAGAACTAATTGAATTGGCAGCATCCTTGAAAT
ACCTCCGGACAAGGATCTGGGGGTGGGGGTGGAAGCAACTGCGAAATAGCAGACGGAGAAATTCCTTTGGAAG
TTATTCCGTAGCATAAGAGCTGAAACTTCAGAGCAAGTTTTTCATTGGGCAAAATGGGGGAACAACCTATCTTCAG
CACTCGAGCTCATGTCTTCCAAATTGACCCAAACACAAAGAAGAAGTGGGTACCCACCAGCAAGCATGCAGTTAC
TGTGTCTTATTTCTATGACAGCACAAAGAAATGTGTATAGGATAATCAGTTTAGATGGCTCAAAGGCAATAATAAA
TAGTACCATCACCCCAACATGACATTTACTAAAACATCTCAGAAGTTTGGCCAGTGGGCTGATAGCCGGGCAAA
CACCGTTTATGGATTGGGATTCTCCTCTGAGCATCATCTTTCGAAATTGCAGAAAAGTTTCAGGAATTTAAAGA
AGCTGCTCGACTAGCAAAGGAAAAATCACAAGAGAAGATGGAACCTTACCAGTACACCTTCACAGGAATCCGCAGG
CGGGGATCTTCAGTCTCCTTTAACACCGGAAAGTATCAACGGGACAGATGATGAAAGAACACCTGATGTGACACA
GAACTCAGAGCCAAGGGCTGAACCAACTCAGAATGCATTGCCATTTTCACATAGTTCAGCAATCAGCAAACATTG
GGAGGCTGAACTGGCTACCCTCAAAGGAAATAATGCCAACTCACTGCAGCCCTGCTGGAGTCCACTGCCAATGT
GAAACAATGGAACAGCAACTTGCTGCCTATCAAGAGGAAGCAGAACGCTGCACAAGCGGGTGACTGAACTTGA
ATGTGTTAGTAGCCAAGCAAATGCAGTACATACTCATAAGACAGAATTAAATCAGACAATACAAGAAGTGAAGA
GACACTGAACTGAAGGAAGAGGAAATAGAAAGGTTAAACAAGAAATTGATAATGCCAGAGAACTACAAGAACA
GAGGGATTCTTTGACTCAGAACTACAGGAAGTAGAAATTCGGAACAAAGACCTGGAGGGACAAGTGTCTGACTT
AGAGCAACGCTCTGGAGAAAAGTCAGAATGAACAAGAAGCTTTTCGCAATAACCTGAAGACACTCTTAGAAATTCT
GGATGGAAAGATATTTGAACTAACAGAATTACGAGATAACTTGGCCAAGCTACTAGAATGCAGCTAAGGAAAGTG
AAATTTCAGTGCCAATTAATTAAGATACACTGTCTCTTCATAGGACTGTTTAGGCTCTGCATCAAGATTGC
ACAAAAAAAAAAAAAAAAAAAA

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FIGURE 1057

MGEQPIFSTRAHVFOIDPNTKKNWVPTSKHAVTVSYFYDSTRNVYRIISLDGSKAIINSTITPNMTFTKTSQKFG
QWADSRANTVYGLGFSSEHLSKFAEKQEFKEAARLAKEKSQEKMELTSTPSQESAGGDLQSPLTPESINGTDD
ERTPDVTQNSEPRAEPTQNALPFSHSSAISKHWEAELATLKGNNAKLTAALLESTANVKQWKQQLAAYQEEAERL
HKRVTELECVSSQANAVHHTKTELNQTIQELEETLKLKEEEIERLKQEIDNARELQEQRDSLTQKLQEVERNKD
LEGQLSDLEQRLEKSQNEQEAFRNNLKTILLEILDGKIFELTELRDNLAKLLECS

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FIGURE 1058

GAATTCAGCACAAATGAAGGAGCCATGGAATGCCAATTTAACGTCAGTCTTGTACTTGAAGGGAAAAAAACACTT
GTAATGGTGGCAACAGTGAAGCTGTTCCCTTTAACATCCCCAAATATAGCCAAGTTTAGCACTCCACCAGCCATCC
TCAGAAAAGAAGAGAAAAATGCGAGTGGGTCAATCCCCAGGCAGCGAACTTAGGGATGGCTCATTGAACGATGGTG
GTAATATGGCGCTAAAAACATACACCACTGAAAACACTACCATTTTCTCCTTCACAGTTTTTCAACACATGTCCTG
GTAATGAACAACCTTAATATAGAAAATCCCTTCATTTACATCAACCCCTATTTGTGGGCAGAAAGCTCTCATTACAA
CTCCTCTTCATAAGGAAAACAACTCCCAAAGATCAAAAGGAAAATGTAGGGTTTAGAACCTACTATTAGAAGAT
CTATACTGGGTACCACACCAAGAACTCCTACTCCTTTAAGAATGCGCTTGCTGCTCAGGAGAAAAAATATGGAC
CTCTTAAAATTGTGTCCAGCCACTTGCTTTCTTGGGAAGAAGATATTCGGGAAGTTTTAAAAGAAGAACTGGAA
CAGACCTATTCCCTCAAAGAGGAAGATGAACCTGCTTACAAAAGCTGCAACAAGAGAATACCGCTTCTGGGAAGA
AAGTCAGAAAATCACTAGTCTTAGATAATTGGGAAAAAGAAGATCAGGCACTCAACTGTTGACTGAAGACATTT
CAGACATGCAGTCAGAAAATAGATTTACTACATCCTTATTAATGATACCATTATTGGAAATACATGACAAATAGGT
GCAACTTGATTCCCTGAAAAACAAGATATAAATTCAACCAACAAAACATATACACTTACTAAAAAGAAACCAACC
CTAACACTTCCAAAGTTGTCAAATTGGGAAAAGAATCTTCAGTCAAATTGTGAATGGGAAACAGTGGTTTTATGGGA
AGACAGAAGACCAACTTATTATGACTGAACAAGCAAGAAGATATCTGAGTACTTACACAGCTACCAGTAGTACTT
CAAGAGCTCTCATACTGTAATTGTTATTTAAATTTGATGAAATGCCCACTCCCTTACTGCAGTCTCTACTAAATT
AGGTTGCAGTGAAATTTTTCTCAATTAGTTGTTTTTAAAGTTGTAAGATACCCTTTTAAATACAGCATCTTTTTTC
TATTCTATATAGTAGGCAGAAAGCTAGTAAGTCACCTTAAGGGGTAGATAGTTTCATAGTTTATTTTTTAAAGAGAT
GAGATTTTTTAAATTTGTTTTTAAAGAACAAGATGGGAAAAATAATAGAATGTTTCATGGATTCTAAAAGTAAATT
CTCATATATTTTCTTCAAGATATATGTTGCTACTCTCTTGATGCTGCAGTTTTGTTATAGATAGGTGTATGAG
TATATATGATTTCTGAAATTAGTCTATGTATGGAAAGCACACATGATTTTATGAAGGTACTTTGCCCATGTGCT
GATTTACTTAGGCTACCATTACAAAGAAACACATTGAAAAGGAATTTAAAGGAAGGATAGAAAGTTGCACTACT
AATTTTTTGTTTTTTTTTTTCAGAAGCAGTAAATTAACCTACAGTGTTAAATGTATTTATTTGAGCATAGTACTGA
AAACAAAAGCATTCAAAAAGAGTTTTTTCTTTATTAGTAAATAGTATTTCTTAATCTCAGAGGAGCTGAGAG
TTTTGTTGAATGTATTGTACAGTATGTAGGAGCAGGAGAACITTGTAATTTGGAAAGAAGTCTGTTTTTATAAATT
TATTTTTATTTTTTAAAGCTTAAATGTAGATATTTATAGTATACAGGGAGCCTAGAAGCCAATGTTGTTTTCTGT
ATTACAGCTAACACAGTAAAGAATAATTTGACTTTAAGTATGAAACAGTAGTAAGTTATAGCTGCAAAGAATAC
AATATCTATACTGTATGTCACATCTACCTAAATGTTGCACTATGCCCTTTAAATCATGCTGGTTATAAAGTAGTT
CTAAAATGTACTAAATAATAATTTAATATTTCTTTTTTAAATATATCGGGGGTGGTCATATACATTAATCTGG
TGATTTGTATATGTGTTTGAAATTTTTTGCTTTTGTTTTAAAAAAAATAATATGGTACCTTGGTCCCTAAAAACA
GTCTGCACCTAGAAGTTATATTTACTCAGTGTTCAGAAGTGAGAACTTATCTTTTATTTATAAAAAATATTTTG
TCCTTTTTTAAATGTTTTGTGTTTCTCTACAGGTTACAACAGTTGCTTCAGTTGCCTGTTTTAGGTGTTTGCCT
TATTTTATTTCTTCTTGAAGAATTTTTATTTGCTTTTGTGGTAGAGATTATATGTAATTTTTTTTTCAGTCATAT
AATGGTGTGCTGTCAACTTAAACACTGACAGGTAAATAGAATTGTACACTGTAGTTTGAATTATTTATAATTGAC
ACACTCTCTCCCTCTCCACTCCTGAAGTATGCTGCTATAGAAAATAGCAGAAATCGGCTTGCTGCTACGAGAGAAG
GAAAGAGCGACCACCACTTGCACTGTGTGAAAGATAAAAAACAAATGATGGCAAGTTCTCAAGTTAACTAAATG
GAATCAACCATTACCAGGCAAATTCTTGCAAATACCAAATACTACTATGCCTTATAAAACAAAATGAAAGCAGG
TTAAGATTTTCTGCTCTGTTGTATGTTAATAGAAATGGAATACTAAGTATTTTAAATGCTTAGCTATTGAACAG
TAGACCTAAAAGGGTTTTAAGCTATTTAAATCTACTTGCTAGTTTTTGCATATTTTATATATATATATATTTATA
TATATATATAGTGAGAAGTGAAGAAAATGTATGGTACTAAGATTATGCCTTATTGATAAATAGATAAACCAATTT
GAATCCTCTTAGCATGTTTAAAGTATGTTGATTGCTTTCTAATTAATGAACCTCTCACAGAAATTCACCTTAGTGA
AACCAATGATTGTAGCAAACTCATACTGGATCATTTCAGTTACCTTGAACCTAATAGCACATAATGGTTTTTTGTT
GTTGTTGTTTTTAAATGTAGCCCTTACCTGGATATACATAGTCTGCAATCACCAGTATAATATCTGTGAAGGCT
ATATTTTTTAAAGCATATTTTTTCTTGAGCATTAAATATCCTAAATGGTAATATATTGTGGATAAGTCTGGGCT
TATTGGACATAATACATATTTGGGTTGGTACTGGTTGAATCCTTCAGTTAACTGCTTTGTTGCTTTTTCGAAGAT
TTTTTATCTTAAACATGTCCAGGCATCTTAAGTCACCTTTTACTGTTTTGTTCCCTGAGTTTTCTTCAGTATGT
TATACAAATGCCAGACATAACATGTAGCAGCCATACTTGCATGGAACTGACTACACATACATAAATCTGCATTT
TATTGTAAGGTTTTTACATTAAATACAGCAATTACCTGACTAAATGAGTTTTGTGATATATGAAAACTTCATT
GTAAGAGAATCTTGACATACAATGTTGACTATTAACATCCAAAATAAAGCATCTGTGTACAAG

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FIGURE 1059

GCCTGCTGCCCCGGGGTGGCAGGAGCCGCAGAGGCTTGGGCTGCAGAAAAAGGATCCTGTTTGCTGTGTAATCCT
GAGAATGGACTGCAAGAGAGGAAAACTGGGCGTCTGCTTGGGAATCTATTGTGGAAACCCAGGGTGTTCCTCGA
CCAGTCCCTGGGCGCCAACCTAGAGTATGGACTGACCAGGTACCTGGATGGAGACCTGAGCTGGAGAAGGAGATGC
GCTTGGGAGGAAATTGCAGAGGCCGTCAACATGGAAGCAGCCCCAGAACAGCAGGAGAGGCCTCGCCCCCGA
GAGGTGCCCCAGCTGTTGGGCTGCTGCTGATCATGGCCCTGATGAATACTCTACTCTACCTCTGCCTCGACCAC
TTCTTCATCGCTCCTCGACAATCCACTGTGGACCCACACACTGTCCCTATGGTCACTTCAGGATAGGACAGATG
AAAACTGCTCACCTTGGCTGTCTGCGAGGAGCTGAGAACAGAAGTGAGACAGCTGAAGCGTGTGGGGAAGGA
GCTGTAAAGAGAGTCTTTCTGTCTGAGTGAAGGAGCACAAAGTTGCACTCTCACAGCTCACAGCCTGGAGATG
AAAGATGATTTCTCCATGGACTGCAGATGCTGAAATCTCTCAAGGCACACATGTTGTCAGCTGCTTGGCTAT
TGTGAGGATGACAACACTATGCTTACTGAATATCACCTCTAGGTTCTTGAGTAACCTGGAAGAAACACTAAAC
CTTTCAAAGTACCAAAATGTGAACACGTGGCAGCACAGGCTGGAGCTGGCCATGGACTATGTCAGCATCATTAAT
TACCTGCACCACAGCCCTGTGGGCACACGGGTCTATGTGCGACTCCAACGACCTGCCGAAGACACTGTCCAGTAT
CTGCTAACAGCAACTTCAGCATTTTGGCAAATGACTTGGACGCCCTTACCCTGGTGAACCACAGCTCCGGGATG
CTGGTGAAGTGCGGCCACAGGGAGCTGCATGGGGATTTCGTGGCTCCAGAGCAACTGTGGCCCTATGGAGAGGAC
GTGCCCTTTCACGATGATCTCATGCCCTCATATGATGAGAAGATTGACATTTGGAAGATCCCAGACATCTCCAGT
TTCCTTCTGGGGCACATTGAAGGGAGTGATATGGTCCGATTCCATTTGTTTGATATTACAAAGCATGCAAGAGC
CAGACTCCCTCAGAAAGACCCACTGCCAGGACGTTCTGGAGACCTACCAGAAGGTCTTGATACACTTAGAGAT
GCCATGATGTCTCAGGCAAGAGAGATGCTGTGAAGAACAGTCCAGCCAATGAAGGTGGGATTGAAGGGCTGAATG
GAAGTTACAGCATTCTACTCTGATGGTGGAGTTTTTGCCTGAGTTTCGTGTTTTATTGTTTTTTTTATGGCTTA
GCCATGTGGTTTCGTTGTCCACATCCACATGTACGTTTGTATGTAGTCCACATTGGTTGTTAGATTTTTTTTTTT
TTCTTTGAGATGCGGTCTTGCTCTGTTGCTGAGGCTGGAGTGCAGTGATGTGATCTTGGCTACTGCAGCCTCTG
CCTCCCAGGTTCAAGCAATTCCTCCACCTCAGCCTCCAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCCG
CCACATTCAGTTCCTTATCAAAGAAATAACCCAGACTTAATCTTGAATGATACGATTATGCCCAATATTAAGTAAA
AAATATAAGAAAAGGTTATCTTAAATAGATCTTAGGCAAAATACCAGCTGATGAAGGCATCTGATGCCTTCATCT
GTTCAGTCTATCTCCAAAACAGTAAAAATAACCACTTTTTGTTGGGCAATATGAAATTTTTTAAAGGAGTAGAATA
CCAAATGATAGAAACAGACTGCCTGAATTGAGAAATTTGATTTTTTAAAGTGTGTTCTTTCTAAATTGCTGTTT
CTTAATTTGATTAATTTAATTCATGTATTATGATTAAATCTGAGGCAGATGAGCTTACAAGTATTGAAATAATTA
CTAATTAATCACAATGTGAAGTTATGCATGATGTAAAAATACAAACATTCTAATTAAGGCTTTGCAACACCA
AAAAAAAAAAAAAAAAA

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FIGURE 1060

MEKQPQNSRRGLAPREVPPAVGLLLIMALMNTLLYLCLDHFFIAPRQSTVDPTHCPYGHFRIGQMKNCS PWLSCE
ELRTEVRQLKRVGEGAVKRVFLSEWKEHKVALSQLTSLEMKDDFLHGLQMLKSLQGTHVVILLGYCEDDNTMLTE
YHPLGSLSNLEETLNL SKYQNVNTWQHRLELAMDYVSI INYLHHS PVGTRVMCDSNDLPKILSQYLLTSNFSILA
NDLDALPLVNHSSGMLVKCGHRELHGDFVAPEQLWPYGEDVPFHDDLMP SYDEKIDIWKIPDISSFLLGHIEGSD
MVRFHFLFDIHKACKSQTPSERPTAQDVLETYQKVLDTLRDAMMSQAREML

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FIGURE 1061

GAACAACCCAGAAACCTTCACCTCTCATGCTGAAGCTCACACCCTTGCCCTCCAAGATGAAGGTTTCTGCAGCGC
TTCTGTGCCTGCTGCTCATGGCAGCCACTTTCAGCCCTCAGGGACTTGCTCAGCCAGATTTCAGTTTCCATTCCAA
TCACCTGCTGCTTTAACGTGATCAATAGGAAAATTCCTATCCAGAGGCTGGAGAGCTACACAAGAATCACCAACA
TCCAATGTCCCAAGGAAGCTGTGATCTTCAAGACCCAACGGGGCAAGGAGGTCTGTGCTGACCCCAAGGAGAGAT
GGGTCAGGGATTCCATGAAGCATCTGGACCAAATATTTCAAAATCTGAAGCCATGAGCCTTCATACATGGACTGA
GAGTCAGAGCTTGAAGAAAAGCTTATTTATTTTCCCCAACCTCCCCCAGGTGCAGTGTGACATTATTTTATTATA
ACATCCACAAAGAGATTATTTTAAATAATTTAAAGCATAATATTTCTTAAAAAGTATTTAATTATATTTAAGTT
GTTGATGTTTTAACTCTATCTGTCATACATCCTAGTGAATGAAAATGCAAAATCCTGGTGATGTGTTTTTTGTT
TTTGTTTTCTGTGAGCTCAACTAAGTTCACGGCAAAATGTCATTGTTCTCCCTCCTACCTGCTGTAGTGTGT
GGGTCCTCCCATGGATCATCAAGGTGAAACACTTTGGTATTCTTTGGCAATCAGTGCTCCTGTAAGTCAAATGT
GTGCTTTGTACTGCTGTTGTTGAAATTGATGTTACTGTATATAACTATGGAATTTTGAAAAAAATTTCAAAAAG
AAAAAATATATATAATTTAAACTAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1178/2682
FIGURE 1062

MKVSAAALLCLLLMAATFSPQGLAQPDVSIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTQRGKEVC
ADPKERWVRDSMKHLDQIFQNLKP

1179/2682
FIGURE 1063

CTTCCTTTCTGGGCTCGGACCTAGGTCGCGGCGACATGCCAAACGTACCAAGAAAGTCGGGATCGTCGGTAAAT
ACGGGACCCGCTATGGGGCCTCCCTCCGGAAAATGGTGAAGAAAATTGAAATCAGCCAGCACGCCAAGTACACTT
GCTCTTTCTGTGGCAAAACCAAGATGAAGAGACGAGCTGTGGGGATCTGGCACTGTGGTTCCTGCATGAAGACAG
TGGCTGGCGGTGCCTGGACGTACAATACCACTTCCGCTGTCACGGTAAAGTCGCCATCAGAAGACTGAAGGAGT
TGAAAGACCAGTAGACGCTCCTCTACTCTTTGAGACATCACTGGCCTATAATAAATGGGTTAATTTATGTAACAA
AAAAAAAAAAAAAAAA

1180/2682
FIGURE 1064

MAKRTKKVGIVGKYGTRYGASLRKMKKIEISQHAKYTCSFCGKTKMKRRAVGIWHCGSCMKTVAGGAWTYNTTS
AVTVKSAIRRLKELKDQ

1181/2682
FIGURE 1065

ATGGCCGGGCCTCCGAGGCTCCTGCTGCTGCCCCTGCTTCTGGCGCTGGCTCGCGGCCTGCCTGGGGCCCTGGCT
GCCCCAAGAGGTGCAGCAGTCTCCCCACTGCACGACTGTCCCGTGGGAGCCTCCGTCAACATCACCTGCTCCACC
AGCGGGGGCCTGCGTGGGATCTACCTGAGGCAGCTCGGGCCACAGCCCCAAGACATCATTACTACGAGGACGGG
GTGGTGCCCACTACGGACAGACGGTTCCGGGGCCGCATCGACTTCTCAGGGTCCCAGGACAACCTGACTATCACC
ATGCACCGCCTGCAGCTGTCGGACACTGGCACCTACACCTGCCAGGCCATCACGGAGGTCAATGTCTACGGCTCC
GGCACCCCTGGTCCTGGTGACAGAGGAACAGTCCCAAGGATGGCACAGATGCTCGGACGCCCCACCAAGGGCCTCT
GCCCTCCCTGCCCCACCGACAGGCTCCGCCCTCCCTGACCCGCAGACAGCCTCTGCCCTCCCTGACCCGCCAGCA
GCCTCTGCCCTCCCTGCGGCCCTGGCGGTGATCTCCTTCCTCCTCGGGCTGGGCCTGGGGGTGGCGTGTGTGCTG
GCGAGGACACAGATAAAGAACTGTGCTCGTGGCGGGATAAGAATTGCGCGGCATGTGTGGTGTACGAGGACATG
TCGCACAGCCGCTGCAACACGCTGTCCTCCCCCAACCAGTACCAGTGA

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FIGURE 1066

MAGPPRLLLLPLLLALARGLPALAAQEVQQSPHCTTVPGASVNITCSTSGGLRGIYLRQLGPPQDIIYYEDG
VVPTTDRRFRGRIDFSGSQDNLTITMHRQLSDTGYTCQAITEVNVYSGTLVLVTEEQSQGWHRCSDAPPRAS
ALPAPPTGSALPDPQTASALPDPPAASALPAALAVISFLLGLGLGVACVLARTQIKKLCWRDKNSAACVVYEDM
SHSRCNTLSSPNQYQ

[illegible]

1184/2682
FIGURE 1068

MHHNKQATENAKEEVRRILGLLDAYLKTRTFLVGERVTLADITVVCILLWLYKQVLEPSFRQAFPNTNRWFLTCI
NQPPQFRAVLGEVKLCEKMAQFDAKKFAETQPKKDTPRKEKGSREEKQKPAERKEEKAAAAPAPEEEMDECEQAL
AAEPKAKDPFAHLPKSTFVLDEFKRKYSNEDTLSVALPYFWEHFDKDGWSLWYSEYRFPEELTQTFMSCNLITGM
FQRLDKLRKNAFASVILFGTNNSSSISGVVFRGQELAFPLSPDWQVDYESYTWKLDPGSEETQTLVREYFSWE
GAFQHVKGAFNQGKIFK

1185/2682
FIGURE 1069A

GGATCCTTGAGGGCACTGGTGCCTTTTCAGGTGAGGTCTTAGCAGATGAAAGCGGCTGGCTGTGGCCCGCGCCA
GTAGTGCTTTCTGCTCCGCACTCGCCGTGAGCCAGGTGTGCAACCGGATTGGGGCGAGGGTCGCGCTGGCTACC
TCGCATGCGCAGAGCCGGAAGCCCGCTGACCGACTACAGCTCCCAGAAGAGCCTTGTGGAGGCCGACAGCGGA
AGCCGCTGGCGCCATCTTGAAATCTGATCTCCATCCCCGAGGCTTTGCGTCTGCGCGGCCGCGCTGCTGCTC
CGGGAGCCAGTCTGCTAAAAGGGGAGGACGTTGAGGACGCGCGGCTGGCGGGAGAGACAGCTGGGGAGAGACA
TGGCAGGGTCGGAGCGCGGCTGCGCCTCTGTACTCAGCATCCTCTTAGGCGTTTCCACGCCCGCCCCCTGCC
GAGGGCGGGGCTGACGGCTCTGGTACCCGAGTCGGCGCGCGGGGAGGGGCGCGCCCTGCAGAGTGGGGACC
CCACTGGGCTGTGCCATGCTGACCGGAGACCACCGAGGCGGGAGACAGAGCGCGCGGAAGAGCCATTGAGTGGTC
ACCCAGTAGCCGCGCCGCGCGCCCTCGGGAAGCTTGCCACCCGCTAGGAGGGAAGATGAAGGAGATTGTCAGG
ATCTGTGCCCAGAGCTGTGTGAAACCAGCGCGCTGGATCTTCCACACGGCGTCCAAGCTCAATCTCCAGGTT
CTGCTTTCGCACGCTTGGGCAAGGATGTCCCCCGGATGGCAAAGCCGAGTTGCTTGCAGCAAGTGTGCTTTC
ATGCTTGATCGAATCTATCGATTGACACAGTTATTGCCCGGATTGAAGCGCTTCTATTGAGCGCTTGCAAAAG
CTGCTACTGGAGAAGGATCGCCTCAAGTTCTGCATTGCCAGTATGTATCGGAAGAATAACGATGACTCTGGCGCG
GAGATCAAGGCGGGGAATGGGACGGTTGACATGTCCGCTTACCCGATGCGAGATACTCTGCACTGCTCCAGGAG
GACTTCGCTATTAGGGTTTGTGCTGGGTGGAGAATGAGGATCAGATCCAGGAGCCACACAGCTGCCATGGT
TCAGAAGGCCCTGGAACCGACCCAGGAGATGCCGTGGTGTGCGCGCTTTCGGGGTTGTGATTCTGACTATGAA
GCCATTTGTAAGGTACCTCGAAAGGTGGCCAGAAGTATCTCTGCGGCCCTTCTAGCAGGTGGTCGACCAGCATT
TGCCTGAAGAACCAGCGTTGTCTGAGGTTGGGCCACCCGACTTAGCAAGCACAAGGTACCCCGATGGAGAA
AGCATGGAGGAAGAGACGCTGGTTCTCTGTGGAATCTTTGGATGCAAGCGTCCAGGCTAGCCCTCCACAACAG
AAAGATGAGGAGACTGAGAGAAGTGCAAGGAAGTTGGAAGTGTGACTGTTGTTTCAAGATGATCAGGCTCCGCAG
CATGGGTGTAATCACAAGCTGGAATTAGCTCTTAGCATGATTAAAGGTCTTGATTATAAGCCCATCCAGAGCCCC
CGAGGGAGCAGGCTTCCGATTCCAGTGAAATCCAGCCTACCTGGAGCCAGCCTGGCCCTAGCATGACAGATGGA
GTTAGTTCGGGTTTCTTAACAGGTCTTTGAAACCCCTTACAAGACACCTGTGAGTTATCCCTTGGAGCTTTCA
GACCTGCAGGAGCTGTGGGATGATCTCTGTGAAGATTATTGCGCGCTCCGGGTCCAGCCCATGACTGAAGAGTTG
CTGAAACAACAAAAGCTGAATTCACATGAGACCACTATAACTCAGCAGTCTGTATCTGATTCCCACTTGGCAGAA
CTCCAGGAAAAAATCCAGCAAACAGAGGCCACCAACAAGATTCTTCAAGAGAACTTAATGAAATGAGCTATGAA
CTAAAGTGTGCTCAGGAGTCGTCTCAAAAGCAAGATGGTACAAITCAGAACCTCAAGGAACTCTGAAAAGCAGG
GAACGTGAGACTGAGGAGTTGTACCAGGTAATTGAAGGTCAAAATGACACATGGCAAAGCTTCGAGAAATGCTG
CACCAAAGCCAGCTTGGACAACTTACAGCTCAGAGGGTACTTCTCCAGCTCAGCAACAGGTAGCTCTGCTTGAT
CTTCAGAGTGCTTATTCTGCAGCAACTTGAAATACAGAAGCTCCAGAGGGTGGTACGACAGAAAGAGCGCCAA
CTGGCTGATGCCAAACAATGTGTGCAATTTGTAGAGGCTGCAGCACACGAGAGTGAACAGCAGAAAGAGGCTTCT
TGGAACATAACCAGGAATTGCGAAAAGCCTTGACGAGCTACAAGAAGAATTGCAGAATAAGAGCCAACAGCTT
CGTGCCTGGGAGGCTGAAAAATACAATGAGATTGCAACCCAGGAACAAAACATCCAGCACCTAAACCATAGTCTG
AGTCACAAGGAGCAGTTGCTTACGAATTTCCGGAGCTCCTACAGTATCGAGATAACTCAGACAAAACCTTGAA
GCAAAATGAAATGTTGCTTGAGAACTTCGCCAGCGAATACATGATAAAGCTGTTGCTCTGGAGCGGGCTATAGAT
GAAAAATTCTCTGCTCTAGAAGAGAAAGAAAGAACTGCGCCAGCTTCTGCTTGTGTGAGAGCGGAGATCAT
GACTTAGAGAGACTGCGCGATGTCTCTCCTCCAATGAAGTACTATGCAAAGTATGGAGAGTCTCCTGAGGGCC
AAAGGCCTGGAAGTGAACAGTTATCTACTACCTGTCAAAACCTCCAGTGGCTGAAAGAAGAAATGGAACCAAA
TTTAGCCGTTGGCAGAAGGAACAAGAGAGTATCATTACAGAGTTACAGACGTCTCTTCATGATAGGAACAAGAA
GTGGAGGATCTTAGTGCAACACTGCTCTGCAAACTTGGAACAGGGCAGAGTGAGATAGCAGAGGAGCTGTGCCAG
CGTCTACAGCGAAAGGAAAGGATGCTGCAGGACCTTCTAAGTGATCGAAATAACAAGTGTGGAACATGAAATG
GAGATTCAAGGCCCTGCTTCAGTCTGTGAGCACCAGGGAGCAGGAAAGCCAAGCTGCTGCAGAGAAGTTGGTGCAA
GCCTTAATGGAAGAAATTCAGAATTACAGGCCCTGCGCCAATATTTAGGAGGGAGAGACTCCCTGATGTCCCAA
GCACCATCTCTAACCAACAAGCTGAAGTTACCCCACTGGCCGCTTGGAAACAGACTGATCAAGGTTCAATG
CAGATACCTTCCAGAGATGATAGCACTTCAATTGACTGCCAAAGAGGATGTGAGCATAACCCAGATCCACATTAGGA
GACTTGGACACAGTTGCAGGGCTGGAAAAAGAACTGAGTAATGCCAAAGAGGAACTTGAACATGCTAAAAAA
GAAAGAGAAAGTCAAGTGAAGTTTCTGCTCTACAGTCCATGATGGCTGTGAGGAAGAAGAGCTGCAGGTGCAG
GCTGCTGATATGGAGTCTCTGACCAGGAACATACAGATTAAAGAAGATCTCATAAAGGACCTGCAATGCAACTG

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FIGURE 1069B

GTGATCCTGAAGACATACCAGCTATGGAACGCCTGACCCAGGAAGTCTTACTTCTTCGGGAAAAAGTTGCTTCA
GTAGAATCCCAGGGTCAAGAAATTTTCAGGAAACCGAAGACAACAGTTGCTGCTGATGCTAGAAGGACTAGTAGAT
GAACGGAGTCGGCTCAATGAGGCCTTACAAGCAGAGAGACAGCTCTATAGCAGTCTGGTGAAGTTCCATGCCCCAT
CCAGAGAGCTCTGAGAGAGACCGAACTCTGCAGGTGGAAGTGAAGGGGCTCAGGTGTTACGCAGTCGGCTAGAA
GAAGTTCTTGGAAGAAGCTTGGAGCGCTTAAACAGGCTGGAGACCCTGGCCGCCATTGGAGGTGCAGCTGCAGGG
GATGACACCGAAGATACAAGCACTGAGTTCACTGACAGTATTGAGGAGGAGGCTGCACACCATAGTCACCAGCAA
CTATAGCTTCAGAAGCATTCTTACTTGCAAGACGATGGACACATTCCTTGGGCTTTTGTAACTGAAACGCAC
CACAGAAGACAGGGAGTCATCGAAGGGCTGCTCGGGGAGGTGGCAGGGCGGAGGACCTGCTTGGGAAGAACTCC
AAGAAGATTGGAATGCTTCCAAAGCAAGAATCTTCTCAGTGAAATCTCATTATACAAAGAGAACCTTATGCAAC
CTGACAAACCACTGAGGTGATGGTGACTCAGTGATCAGCAGATGGTACTTCAACAGCAATCCCTGTCAAACCTC
AGAAGTTGAGGCTGAAACATTGCTTCCACCCACCATCAGTGAAGATGTAAGTACATGTTACAAGAGTGAATAAT
CTGGACTTCAGAGATTAAGTCACCAATAGTGATCTCACAAGCACTCACCAGGAACTCCTATAATGTCTCCACTTTG
TCCATGCCATTTAGCAATCTCATCTCTCTAAATGGACTGTGCCTATGATTCTTAAGGAGAAAGTGAATCATTGGTA
GATATCCTGCACAAGCAGCTGGACTTTCCAGTAATAGCTTTCTTGGGGCTATTAGGAAAATTAAACAAGAAATGA
GGCTTTCTGGGTCTGCCTGTATGTCTTCTGCATAAGACAAAGAAGAGACATCGAATCAACCAATAAGAAGAGCCC
AAATAAGCATCCTCAAATCTTTTGGGATTTGGCACTTGGGGACATGAGTAGTTGTCTGGGATACGTCATATTCTC
AACAGTTTCTTTGTAGTAGTAGGATCACCTTCTTATAATAGGATCACCTTCTTGTGCTATAGCTGTACCCGACC
TTCCCTTCTCCCTTGAGTGCTTGCATGAGCTCCACTTTTCTTTTGTGTTGAACAGCTTCTCCTGAGTCTCTCTTA
CCGATGGTTGTGACTTTAATTATATACATCTCTGTCCCTCCAGACAGATCCCTCTGTCTCTACTCTCTGATTTC
TTGAGGATCTTGGGTGAGAGAGAGGGACCTGCAGGATGAACAAATGTCTACTCTAAGACAGCTAGATTGGGAGGT
TGGCTGGTCACTGATGGTTATAATGACTGTGGGACAGGATTAACCTCAGAATAAATGAACAGGAGACACAGATAT
GAAGAAAGTTTCTGATTGATATGGTCTGAAGTACTCCTGGTATTGCAAGTCATTTGCTCTAATTCTCAATTGTAG
GCAAAGTGAATTTGTAAATTTGCTTCTTCAGCCTTCTTCTCTGTAGCCTAGCATGGAGAATCTGACCAGACCCCAT
TTTGAGAAGGTGAGCCTACACTGGAATGAACCTTTTACATTAGGGCATTGTATTTCCCTCACAATACTTGCCAC
ATTACTTGGCATAGGAGAGATGCTTAGTGTAATTATAAGTTAACAAGCCTTTGGATCAGGGCTTGACTCATGATA
GACAAAGTATATGCCTGCTGGATGGAAGAATCTCTTGGGCGAGCACCATTTTCTTTCCATCACCTTTTCTTGAA
AATATATCTTCAGCTTTGGGTAGGAGGAATCTTGGTGTATGAATCATTGCAAATTTACTTCATCTTTTCTGGAG
TTTGAAGTTGTGACTCTCCTGCTACCAATTAATAAAGCTTACTTTGCCAT

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FIGURE 1070

MKEICRICARELCGNQRRWIFHTASKLNLQVLLSHVLGKDVPDRGKAEFACSKCAFMLDRIYRFDTVIARIEALS
IERLQKLLLEKDRLLKFCIASMYRKNNDDSGAEIKAGNGTVDM SVLPDARYSALLQEDFAYSGFECWVENEDQIQE
PHSCHGSEGPGRNRRRCRGCAALRVADSDYEAIKVPKVARISICGPSSRWSTSICTEEPALSEVGPDDLASTK
VPPDGESMEEETPGSSVESLDASVQASPPQKDEETERSAKELGKCDCCSDDQAPQHGCNHNKLELALSMIKGLDY
KPIQSPRGSRLPIPVKSSLP GAKPGPSMTDGVSSGFLNRSKPLYKTPVSYPLELSDLQELWDDLCE DYLP LRVQ
PMTEELLKQQKLNSHETTITQQSVSDSHLAELOEKIQQTEATNKILQEKLNEMSYELKCAQESSQKQDGTIQNLK
ETLKSRERETEELYQVIEGQNDTMAKLREMLHQSOLGQLHSSEGTSPAQQQVALLDLQ SALFCSQLEIQKLQRVV
RQKERQLADAKQCVQFVEAAHSESEQKEASWKHNQELRKALQQLQEELQNKSSQLRAWAEAEKYNEIRTQEQNIQ
HLNHSLSHKEQLLQEFRELLQYRDNSDKTLEANEMLLEKLQRRIHDKAVALERAIDEKFSALEEKEKELRQLRLA
VRERDHDLERLRDVLSSNEATMQSMESLLRAKGLEVEQLSTTCQNLQWLKEEMETKFSRWQKEQESIQQQLQTS
HNRNKEVEDLSATLLCKLGPQSEIAEELCQRLQRKERMLQDLLSDRNKQVLEHEMEIQGLLSVSTREQESQAA
AEKLVQALMERNSELQALROYLGGRDSLMSQAPISNQAEVPTGRLGKQTDQGSQIPSRDDSTSLTAKEDVSI
PRSTLGDLDTVAGLEKELSNAKEEELMAKKERESQMELSALQSMMAVQEEELQVQAADMESLTRNIQIKEDLIK
DLQMQLVDPEDIPAMERLTQEVLLLREKVASVESQGEISGNRRQQLLLMLEGLVDERSRLNEALQAERQLYSSL
VKFHAPHPESSERDRTLOVELEGAQVLRSLRLEEVLGRSLERLNRLETAAIGGAAAGDDTDTSTEF TDSIEEEAA
HSHSQQL

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FIGURE 1071

GTAGTGCCGCCGGGACTCTTGGCGGGTGAAGGTGTGTGTGTCAGCTTTTGGCTCACTCGAGCCCTGGGCGCTGCTTG
CTAAAGAGCCGAGCACGCGGGTCTGTCATCATGTCGCGTTACGGGCGGTACGGAGGAGAAACCAAGGTGTATGTT
GGTAACTGGGAACTGGCGCTGGCAAAGGAGAGTTAGAAAGGGCTTTCAGTTATTATGGTCCTTTAAGAACTGTA
TGGATTGCGAGAAATCCTCCAGGATTGCGCTTTGTGGAATTCGAAGATCCTAGAGATGCAGAAGATGCAGTACGA
GGACTGGATGGAAGGTGATTTGTGGCTCCCGAGTGAGGGTTGAACTATCGACAGGCATGCCTCGGAGATCACGT
TTTGATAGACCACCTGCCCCGACGTCCCTTTGATCCAAATGATAGATGCTATGAGTGTGGCGAAAAGGGACATTAT
GCTTATGATTGTCTCGTTACAGCCGGCGAAGAAGAAGCAGGTACGGTCTAGATCACATTCTCGATCCAGAGGA
AGGCGATACTCTCGCTCACGCAGCAGGAGCAGGGGACGAAGGTCAAGGTCAGCATCTCTCGACGATCAAGATCT
ATCTCTCTTCGTAGATCAAGATCAGCTTCACTCAGAAGATCTAGGTCTGGTTCTATAAAAGGATCGAGGTATTTT
CAATCCCCGTCGAGGTCAAGATCAAGATCCAGGTCTATTTACGACCAAGAAGCAGCCGATCAAAGTCCAGATCT
CCATCTCCAAAAGAGTCGTTCCCCATCAGGAAGTCTCGCAGAAGTGCAAGTCTGAAAGAATGGACTGAAGC
TCTCAAGTTCACCTTTAGGGAAAAGTTATTTTGTGTTACATTATTATAAGGGATTTGTGATGTCTGTAAAGTGT
ACCTAGGAAAGATAATTCAACCATCTAATCAAAATGGATCTGGATTACTATGTAAATTCACAGCAGTAAGGATAA
TATAAATTTTGTGTAATGTATGAACATCATATGGTCTGAAAATGTGGGTTTTTATTTGGCACATTTAAATAACAT
GTTTCTAACTAGATTTTGTGTTCAATATTAACACTTCTTAATTTGATATATTTGAGAGTCAGACATTAT
AATTGTTAATCCTTATTCATACATACCTACATTGAGAAATGAAAGGTGTGGTTAAGTCTTGAACATCACIATTC
TATGCATAAACTTGGCCAGGATCTTAAGGGACTTTGAAAATTCATCTTACCCTTGTAGCTCTGGGTAAGATGA
CCTGAGTCCCTTATGATACAGCCTGAATGCATCATGACAGATCCTTAGTTAGCTAATCCGTTTGAAGTTGGTGT
AGTAGGTATTGTATGATCAGTGGTGAAGCAAGTAGGACCACTGATGTGTCTAAATGAGCATGACAGGAACATAAC
GAACTGATTAAATGTATGAGAAATAGAACTGATTTCTGGATGATCTTTATACTAATTGCAGCTTTTCAGGCTAC
TAGGTGGCATAGTGTTAATTAGGACTCCCAAGATATGGGGAGTTCTACTCTCAATGGTCTTGTTTCTTTGCTTT
CTACATTAGTTAACCAGTTTATACCAAAAATGCATGTTTGAAGGAATTGTCTGAAATTGGGACAAAACACCTTC
ATGTAAACCAGCTTTGCAAAATTTTCCAGCCAGATACTCTTCATCTATTCAAATGGATTGTCTTATTCTGAGCA
AAGACCTGTTGTTAATCTTCAAGCTAGGTTTTCAGTTCCTCAACCACAACATTCTTCTATTTTGCCAGGCTGGTG
CAAAGTAATTAAAGATGTCAATCAGAAATGTCAATGAGACTAAAGTGGTTTTGTAAATCTCAGCTATATTTAGCA
ACACTCCATGTAGCTAATATTTTTTGGTAGCATCTGGTAGACCTTAGAATGTTACATAGCCAGTAGGTTCTTTAT
TCAAATTTAAGTATCTTAAGAATAGTAGGGCAGTAACAGTTACTTTTGAGAGTTTTCTGGTCAAGCTTTTACCA
GGCATTCTCTAGCCTTGGTACAAAAAAGAAACCTGCTGGTTGCGCAGATACCTAGGCTTGTCATTTTATG
CATTTTCAGCAAAGTCATTGGAGACTATTGCAACTGGGAATACTGGTCTGCATCAAGTTTAAATCGGTAGTTTGA
CCGCTAGTATGTTGGAAGTTATTTGGATTGTTTTGGAATTTGACTGGCTGAATTATGGTTGGTATAAAGTTAT
GTGTATACTGGCAGGCTTATTTATCTGTTGCACTTGGTTAGCTTTAATTGTTCTGTATTATTTAAAGATAAGTT
TACTCAACAATAA

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FIGURE 1072

MSRYGRYGGETKVYVGNLGTGAGKGELERAFSYYGPLRTVWIARNPPGFVFEFEDPRDAEDAVRGLDGKVICGS
RVRVELSTGMPRRSRFDRPPARRPFDPNDRCYECGEKGHYAYDCHRYSRRRRSRSHSRGRYRSR
RGRRSRASPRRSRSLRRSRASLRRSRSGSIKGSRYFQSPSRSRSRISRPSSRSKSRSPSPKRSRSPS
GSPRRSASPERMD

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FIGURE 1073A

CAAGCCAATTATGGCTCCCTTTCCCAATGGTAGTTTGTGAATGGCTTTAATTCGCCAGGATCTTATAAAACAAAT
GCTGCTGCTATGAATATGGGTCGACCATTCCAAAAAATCGTGTGAAGCCTCAGTTTAGGTCATCTGGTGGTTCA
GAACACTCAACAGAGGGCTCTGTATCCTTGGGGGATGGACAGTTGAACAGATATAGTTCAAGAACTTTCCAGCT
GAACGGCATAACCCACAGTAAGTGGGCATCAGGAGCAAACCTTACCTTCAGAAGGAGACTTCCACTTTGCAGGTG
GAACAGAATGGGGACTATGGTAGGGGAGGAGAACTCTCTTCAGAGGTGGAAGACGACGAGAAGATGACAGGATC
TCAAGACCTCATCCTTCAACAGCTGAATCAAAGGCTCCAACACCAAAGTTTGACTTATTAGCCTCAAATTTTCCA
CCTTTACCTGGAGTTTATCAAGAATGCCAGGTGAACCTGTTTGGAGAATAGGATGCTGATGTGTAAAGGTG
TCTACAAAGAAAAGGATAATGAAGAGTTGACAATTAGTTGCCAGTGCCCTGCAGATGAGCAGACAGAATGCACTT
CTGCCCAGCAACTCAATATGAGTACCAGTTCTCCATGTGCTGCTGAGCTTACTGCATTAAGCACAACCTCAGCAAG
AAAAGGATCTAATAGAAGATTCTCTGTTCAGAAGGATGGTCTCAATCAGACAACATAACCAGTTTCTCCTCCAA
GTACTACAAAGCCATCGAGGGCAAGTACTGCTTACCATGTAATAAATAACATAAATGCAGCTACAGCTGTGGCTC
TACAGGAACCCCGAAAGTTAAGTTATGCTGAAGTGTGCCAGAAGCCCCCTAAAGAGCCATCTTCAGTTCTTGTGC
AGCCACTACGGGAACCTCGCTCCAATGTGGTGTCTCCACCAAAAATGAAGACAATGGAGCTCCTGAGAACTCCG
TTGAGAAACCATGAGAAGCCAGAAGCAAGGGCTAGTAAGGATTATTCTGGCTTCCGAGGCAATAAATCCCCA
GGGGAGCAGCAGGAAAAATCAGGGAACAGAGACGCCAGTTTAGCCATAGGGCTATACCTCAGGGAGTGACTCGAC
GTAATGGCAAAGAGCAATATGTGCCACCCAGATCACCAAAGTAAAAAACAACAACTATTCAAAACTTCACTC
TCTTCCCATTAACTTGAAGTGTGGCTATATTGAAGTGTGTTGGAGGGGAGGGGGTAGCCAGGAAGGAAACAAGA
GAAAGTACGTCCATTTTATTATGGATTGTGGAGTTGTGAGTGATAGGATCCCAAAATTCATCTCTAATGTGGTTT
TTAATGCTGGAGGATTCCAATCAATATAAATATATATATATATACACACACATATATAAAAGTATAATTTT
TCTATTTTGTGTTTTTGGTTTTAATTTGCAGAGATTGCTGCCAGGAATCAATTTTGAGGGTTTCAATTAGCTTG
GAAGAAAAAAGAAACATACATCCTTCAGTATAGGAGATGAGGGAATGAGAGAAAATATTTTTTGAAGAAGCAT
TTCTGTAAATTAGAAATTACTTTTTTAACTATTTAAAGTTTGGCTTGAAGAATGCCATCTCTGACTATATGG
CCTTGTATTGCAAAGCAGATCAGTGGCTGGGGTGCCTGTTGTGGGTGTGAGTGTGTACAGAGCGATTGAAGCCA
AATCTGTTGTGATGTTAGTAAATGATTGAAAAGTGAATGTAATACTTGAGTAGATTTTTTTTTCTAGTTTGAAA
TTTAGTCTGTCTTTTTGACCTTACTAATATTTCAATTAACAAGTTGTAAACTCTGATTGTACTTAGAGATGTGA
CTACCAATCAGTTTGATACCAAGGAAAGGGGTTATTCAAGAAATGAAAATTTTATCTTGGACCTCAGTGCAT
CGGTCAAATGGATTTTCAAGAGTTTAAACTTCCCTGTGATTCCCCCTGAATACCCCAAAATGAGAAACAAATTT
TTTTTCTTACTCCATTTGTACTCTCTGTTCTTTGACTGCCACCCACAGAAAAGCAAAATAACCAACTACCTAC
TCAATTGTGTGTTTGTAAATGCTTTGAGCAGTCTAGTCAAATCATATAAATTGTTCTAAATTTCAGAATTGAACA
TTGAAGTATTAACCTTTCTGTTTACACATTTAGAATTTTAGCTCCCAAGATGGTAGGGCAGACTGACCGTACAGT
AATTTATTTGTGCTTAGTGTAAAGATTAAAGCATAGTAAGTGAATGCTTAAAGTGTAAATATGTAGAAGTAAAA
AATTTTTTTTTAAAGGCTTAATTTGGGAGGGGGGACTTATTTCTGTTTACAGTGTATTACCTTCCCTCCTCT
TCTCCCCCACACCCAAACAAATACAGTTTGAATTCAGTGAACAGTACCAGCAAGTCATGAGATTTTTTAGTA
AAGATGAGAAAGATGTTTGAAGAAATTAGTGCATAATTTCTCAGTGAATAAAGTGTAGCTCTCATATACTAAA
TAGACAAGTTTACATGCTGTTATTTAGAAATGACTAAAATATAAAAACCGTGTGTGTTAATCTGTTTTAAGT
CATACCATGTTAGAGTTCTATGTAAGGTGGGTTTTATTTTCTTTTAAAGGATAGTTTGTAAATAGTAAGAACTG
TCCCATATGTTAGTAAATTACATATGTACAAATGAAACTGTAAATGTGAACACTGGAAGCACCATTGTGACA
TAGAGTAAACATCTTAGTAATATATTAAAGTGAATGTAATGGTGGTTAAATTACATTACTGTGAAATTCATCT
TCCAACCTCTAAGTTAAGCTTTGGAGATACATGTTAGTGGTTAACTGTTAAGAGCTTTGAAAACACTGCACATATC
TGTACAAGCCAGAATTACTATTTCTTTGACTTATTATTAGCTTGGCAGTTGCTTTTGATTGTATTGTTTTATGAC
ATGGTATACTACTATATTTACTCAGTTTGAACATTTCAATTTCTACACACTATTTTAAAAATGCCTACTAGGT
GAAACATAACAATAAACTACCTGTGCTGAAATTTGGGGGAAGTTAGGTCCTTTAAAAAACATATTAATCAT
GACTACATCTATGATAAAAGTGCTTATTTTGGTTTACTAAGATAATGCAGTTGGTGGAAATGATAACGTTTTAA
GTGTTAATCCTTTGAATGCGTTGGATTTTCAAGAAATAACATTTTGTAAAAATCACTTGGTAAGGATTATAAA
CTTAATTACTGCACTTAAATGAAACATTACTTTTTTAAACAATGTGTACAAATGTAGGTCTGTATTACTTGT
ATGCTTGTGTGACTTACTGTTAGTCCAGCTCTAAAAATTTAAAGGTTGTAATTGAAATACAAGAAAGAGCCTTC
TTTTAGAAGAAAGCAAGTATATTTTGTCTTTTACTTCAATGTTATTTAAAGTAGAAATTTAATTTGTAGATATA
ACCTTTAAAAATTTTCTCATTAAAGACAATGTTTTTAAATTTAATTTGCCTCATTACATCTAATAGTTCCCATTTGA

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FIGURE 1073B

TGGCATGTATAGGGAAGAGTGANNNNNNNNNNNNNNNNNNNNNNNNNNNNNAATATTTATATATATTCACAGTATG
TATTTAGCATTTATTTTATTACAGCAGATTTAAAGTTTGTATCTAAATAATGCCTATGAGTTGTGTGAAGCTCTT
GGCTTTTTTCCAACGTTACTTTGTAACATAAGGGTGGATGTTTCATTGTAGTTTATTTATTGGTTCTTTAGAT
GGAGGAATTTAAAAATCAAATTTTTCTCTTCACCTTTATGACTTGACATTCCTTGATCTGTGGAGGCTAAAA
GTAGGTATAAATGATATTGAATGTTGGGTATAGTGATACTCTGCCATAGTTCTTACTGCATGAAGAGAACAAGAG
TCACACAAGTTCAACCACTTTGCACCTTCATAGAGAAGGTACATAGAGACATTGCAAAACCTGTCTCCATTTGCTAT
CCTGATAATTAAGGTTTTCATAATACCTAGGGCCTGTCTCTGAGTAATTTTAATTTTGCCAAATACACTGACATT
TAAATAGTGATCCATCTAAATTTTTTTCAGCTGGGTTTTGAGGAATATAAGAGCTTCAATGATAAAGGTTTGT
TGAGTTGTCTTATGTGCTGAATTTGCAGATGATCAGATGCTGTGCAGAATCTGATTTATTTTGTTCCTAAA
ATTAAGATAGCTTGAATATTATTTACATTCCTTTTTCTTTTTTAAATAAACAGGTTTGCCTTTGGAAAGGCTTAA
TGATGGAATGTTAGCATCTTCACTAGGGTAAAGAAGAACAAGAAAGAAATGTTGCTGGAACGTAAATAGTATTTAA
AAGTTAATGAACACTTCTCTAGTTTTCTTAGTTATGGCCTTAATAATTAGTCTCTTGGCTTAAATGTCCACTGGT
TTTACTTTGACACAGTTGAACAACACTGGGGTTAAGTCTCTGGTATTTAGGCTGGCAATATATATATTAACCATA
TTTTAAAAGTACCAATTTTGTTTTTACAGAAAAGATAAAACTCAAAGAGAACAGTGTATTCTTCTGAGGGGCT
TTTATAAATTATTAATAATAATATATGATGGATTTTTCTTAATTTTTTATATTTCTTACAATTTTGGTGGCCA
TTAATTTAACTTTAGGCTTTTGGGCATATGCTAGTCTGAGCTTCCGAAAAGATACATATATGTTCCCTTTTCAT
TAGCTGAATGAGGATATTTTAAAGAGTTGAAAGAGAATTTATTTTCAAGTTGTGAGTAAATCCTCCTTTGAAATT
CACCTGATTATTAGATAACTTAAAGTTTATTTTAAAGCTGACAACCTTTTATGAATCTTCGAGTTGACAGTTC
CTAAAAGCGTAACTCAGATATTAATGGGCTGTGTATTAATGGTTTTATTTTCAGTTTTGCAGCACAGAACACTG
TTGAAATATCCATATCAACTTGATTTTTTAACTAATTCAGGTGTCCTTTGCATCTCTTAAATGTTGGGGGTGG
GGGTCAGAGCCAGTTATCCGGCTTCTGTTTTGTGCGATTGCTTAGATTGTTTCCTGTTGTCAAACCTGTTACCCCC
AAAATTGGTGTGACACATGCTCATGCATAAAATGTTAAATGAGTACATCCTTGTATTTGTATTTGTTTTCAACA
TCGCCAAGGTGCTATGGGAAATTAACAAAATTAGAAAAAAATAAAATTATTAAGCAGAAAAA

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FIGURE 1074

MNMGRPFQKNRVKQFRSSGGSEHSTEGSVSLGDGQLNRYSSRNFP AERHNPTVTGHQEQTYLQKETSTLQVEQN
GDYGRGRRTLFRGRRRREDDRISRPH PSTAESKAPTPKFDLLASNFPPLPGSSSRMPGELVWRIGCLMLLKVSTK
KRIMKSTISCPVPADEQTECTSAQQLNMSTSSPCAAELTALSTTQQEKDLIEDSSVQKDGLNQTTIPVSPSTTK
PSRASTASPCNNNINAATAVALQEPRKLSYAEVCQKPPKEPSSVLVQPLRELRSNVVSPTKNEDNGAPENSVEKP
HEKPEARASKDYSGFRGNIIPRGAAGKIREQRRQFSHRAIPQGVTRRNGKEQYVPPRSPK

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FIGURE 1075

CGAGGATGTGCGTGGGGGCTCGGCGGCTGGGCCGCGGGCCGTGTGCGGCTCTGCTCCTCCTGGGCCTGGGGCTGA
GCACCGTGACGGGGCTCCACTGTGTCGGGGACACCTACCCAGCAACGACCGGTGCTGCCACGAGTGCAGGCCAG
GCAACGGGATGGTGAGCCGCTGCAGCCGCTCCCAGAACACGGTGTGCCGTCCGTGCGGGCCGGGCTTCTACAACG
ACGTGGTCAGCTCCAAGCCGTGCAAGCCCTGCACGTGGTGTAACCTCAGAAGTGGGAGTGAGCGGAAGCAGCTGT
GCACGGCCACACAGGACACAGTCTGCCGCTGCCGGGCGGGCAGCCAGCCCTGGACAGCTACAAGCCTGGAGTTG
ACTGTGCCCCCTGCCCTCCAGGGCACTTCTCCCCAGGCGACAACCAGGCCTGCAAGCCCTGGACCAACTGCACCT
TGGCTGGGAAGCACACCCTGCAGCCGGCCAGCAATAGCTCGGACGCAATCTGTGAGGACAGGGACCCCCAGCCA
CGCAGCCCCAGGAAACCCAGGGCCCCCGGCCAGGCCCATCACTGTCCAGCCCACTGAAGCCTGGCCCAGAACTT
CACAGGGACCCTCCACCCGGCCCCGTGGAGGTCCCCGGGGGCCGTGCGGTTGCCGCCATCCTGGGCCTGGGCCTGG
TGCTGGGGCTGCTGGGCCCCCTGGCCATCCTGCTGGCCCTGTACCTGCTCCGGAGGGACCAGAGGCTGCCCCCG
ATGCCACAAAGCCCCCTGGGGGAGGCAGTTTCCGGACCCCCATCCAAGAGGAGCAGGCCGACGCCCACTCCACCC
TGGCCAAGATCTGACCTGGGCCCACCAAGGTGGACGCTGGGCCCCGCCAGGCTGGAGCCCGGAGGGTCTGCTGGG
CGGGGGCCAGCGTCCACCTTGGTGGGCCCAGGTGAGATCTTGGCCAGGCTGGAGTGGGGCCAGCATAACATACA
GTGCCGCCACCAGCCCCCTGAGCCCTGTTCCCCCACTACTCTTCCAAATTTGTGGAGACAGGGCTCAGGGGGC
TGGTGGCGGCACTGTATGTTATGCTGGGCATGACGGCCATGACTTCGGCTATCTTCTGTTTtaggtccttgattt
CCTGATCTTTCTGAAGGATTTGTCCTTGGGCAATCTCGAGCTGCCGCTTGCATCGCCAGTGC GGAGAACAGGT
CCAGCTTGATTCTCGTCTCTGCACTTAAGCTGTTCTCCAGGTGCGTGTGATTTGTCAAAAGAAAGCCTTCTGGAT
GCTGTTAAGATGTACCCTTCAGGTGAACCTGGTATCAGACCCACAGTACTTGCTGTTTGAGAAAAAATAAAAAACA
AAAAGGTCAAAAAAAAAAAAAAA

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FIGURE 1076

MCVGARRLGPGCAALLLLGLGLSTVTGLHCVGDTYP SNDRCCHECRPGNGMVSRCRSQNTVCRPCGPGFYNDV
VSSKPCKPCTWCNLRSGSERKQLCTATQDTVCRCRAGTQFLDSYKPGVDCAPCPPGHFSPGDNQACKPWTNCTLA
GKHTLQFASNSSDAICEDRDPPATQPQETQGPPARPITVQPTA WPRTSQGPSTRPVEVPGGRAVAAILGLGLVL
GLLGPLAILLALYLLRRDQRLPPDAHKKPPGGGSFRTP IQEEQADAHSTLAKI

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FIGURE 1077

CACGCAGCAGGATGGCAAGGGCTCCGCTTGGGGTCTGCTCCTCTTGGGGCTTCTCGGCAGGGGTGTGGGAAGA
ACGAGGAAGTGCCTTTATCACCATCTCTTCAACAATATGACCCAGGAAGCCGGCCAGTGGGGAGCCTGAGG
ATACTGTACCATCAGCCTCAAGGTACCCCTGACGAATCTCATCTCACTGAATGAAAAAGAGGAGACTCTACCA
CTAGCGTCTGGATTGGAATCGATTGGCAGGATTACCGACTCAACTACAGCAAGGACGACTTTGGGGGTATAGAAA
CCCTGCGAGTCCCTTCAGAACTCGTGTGGCTGCCAGAGATTGTGCTGGAAAACAATATTGATGGCCAGTTCGGAG
TGGCCTACGACGCCAACGTGCTCGTCTACGAGGGCGGCTCCGTGACGTGGCTGCCTCCGGCCATCTACCGCAGCG
TCTGCGCAGTGGAGGTACCTACTTCCCTTCGATTGGCAGAACTGTTGCTTATTTTCCGCTCTCAGACGTACA
ATGCCGAAGAGGTGGAGTTCATTTTGGCGTAGACAACGACGGCAAGACCATCAACAAGATCGACATCGACACAG
AGGCCATATACTGAGAACGGCGAGTGGGCCATCGACTTCTGCCCCGGGGTGATCCGCCGCCACCACGGTGGCGCCA
CCGACGGCCCAGGGGAGACTGACGTCTACTCGCTCATCATCCGCCGAAGCCGCTCTTCTACGTCAATTAACA
TCATCGTGCCCTGTGTGCTCATCTCGGGCTGGTGTGCTCGCCTACTTCTGCCGGCGCAGGCCGGCGGCCAGA
AATGCACGGTCTCCATCAACGTCTGCTCGCCAGACCGTCTTCTTGTTCCTCATTGCCCAGAAAATCCAGAGA
CTTCTCTGAGCGTGCCGCTCCTGGGCAGGTTCTTATTTTCGTATGGTGGTGGCCACGCTCATTGTATGAATT
GCGTCATCGTGTCAACGTGTCCAGCGGACGCCCCACCACCCACGCCATGTCCCGCGGCTGCGCCACGTTCTCC
TGGAGCTGCTGCCGCGCCTCCTGGGCTCCCCGCCGCCGCCGAGGCCCGCCGGCCGCTCGCCCCAAGGCCGG
CGTCGTGGTGGGCTTATTGCTCCGCGCGGAGGAGCTGATACTGAAAAAGCCACGGAGCGAGCTCGTGTGTTGAGG
GGCAGAGGCACCGGCAGGGGACCTGGACGGCTGCCTTCTGCCAGAGCCTGGGCGCCGCCGCCCGAGGTCCGCT
GCTGTGTGGATGCCGTGAACCTCGTGGCCGAGAGCACGAGAGATCAGGAGGCCACCGGCGAGGAAGTGTCCGACT
GGGTGCGCATGGGGAATGCCCTTGACAACATCTGCTTCTGGCCGCTCTGGTGTCTTTCAGCGTGGGCTCCAGCC
TCATCTTCTCGGGGCCTACTTCAACCGAGTGCCTGATCTCCCTACGCGCCGTGTATCCAGCCTTAGCTCGCAC
CGACTTCAATTTCCACCCATCTCCAGTAGGAAATTGATTTGAAAAAGTAGGCTGCCGCCACCACGGCATTATG
ATCCCTTCCCCCTGCTGATCAATCTGCAGTTTGTGAACCTCACAAGAATGGTGTGTGCCCGTTCCCTGGCGTGTG
TAGGCCTGGCCGCGAGTCCAGGGGTGAGCAGGAGGAAAGGGTTCACATAGGCTCTCAGGTGCCAGTCTTCCAGAAA
GCAAGGACTGCCCTTCATTACGCTTGTGACCTCCAGCCTTTCTAAGGCTCAGCCCCACGGGACTCTGGTGGC
TGCCAGCTTGTGAGCTATCTATCTATATTCAATTCATAGCCAAACAGGAGACCCCTTTCAGGACTTGCACACAG
GGAGGCTGTAGCCAGGAAACCTCTTCTTCCCTGGTCTGGCTCTGCTGGAGCGGTTGGGAACCAACACCTTCAG
TGCTGGTGGCCCTCAGGCCCACAGGTTTAAGGCTGAGGCTGCCCTGACCCTTCCACAGTCATTTCTTCTAGGTTT
TCTTGGCCCAGCACTGCCATCCACCCCATGAGGCTCACTCATTGCAGATCCAGCCCACCTGCCCCTTTCTT
CCCCACCCTGGAGGCTCTCTCTGCTAGTCTACAGTACTGACAGAAAGCAAGGACATGCGGCTGCATGGTGGGA
GCTGGTTGAATTGTCTTTATTAACAAACAGGATATCCAAGGCCACTACATTGAGGAGGGGGAGGGGGGAGGGAG
GAGAAGGGTTACTTGTGCTCACAATATATACAGATGCAAGCAAGGGGCGTGGAGAGTGAGGGCTCCCTGCTCCC
TCCCTCCACCGGGGAAGGGCATGGGCTAGAAGAGGAGAGGGGGTGGGAATGGGGGAATGTTTGGCTGCGGG
GTCCCCCTCCATTCCCTGGAGTTTGGGGGAAGGGGAATCATTAAAGTGCTTTCAGA

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FIGURE 1078

MARAPLGVLLLLGLLGRGVGKNEELRLYHHLFNNYDPGSRPVREPEDTVTISLKVTLTNLISLNEKEETLTTSVW
IGIDWQDYRLNYSKDDFGGIETLRVPSELVWLPEIVLENNIDGQFGVAYDANVLVYEGGSVTWLPPAIYRSVCAV
EVTYFPFDWQNCSLIFRSQTYNAEEVEFTFAVDNDGKTINKIDIDTEAYTENGEWAIDFCPGVIRRHGGATDGP
GETDVIYSLLIIRKPLFYVINIIVPCVLISGLVLLAYFLPAQAGGQKCTVSINVLLAQTVFLFLIAQKIPETSLS
VPLLGRFLIFVMVVATLIVMNCVIVLNVSQRTPTTHAMSPRLRHVLELLPRLGSPPPPEAPRAASPPRRASSV
GLLLRAEELILKKPRSELVFEGQRHRQGTWTA AFCQSLGAAPEVRCCVDVNFVAESTRDQEATGEEVSDWVRM
GNALDNICFWAALVLF SVGSSLIFLGAYFNRVPDLPYAPCIQP

[illegible]

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FIGURE 1080

MLYFSLFWAARPLQRCGQLVRMAIRAQHSNAAQTQTGEANRGWTGQESLSDSDPEMWELLQREKDRQCRGLELIA
SENFCSRAALEALGSCLNNKYSEGYPGKRYYGGAEVVDEIELLCQRRALEAFDLDPAQWGVNVQPYSGSPANLAV
YTALLQPHDRIMGLDLPDGGHLTHGYMSDVKRISATSIFFESMPYKLNPKTGLIDYNQLALTARLFRPRLI IAGT
SAYARLIDYARMREVCDEVKAHLLADMAHISGLVAAKVIPSFFKHADIVTTTTHKTLRGARSGLIFYRKGVKAVD
PKTGREIPYTFEDRINFAVFPSLQGGPHNHAIAAVALKQACTPMFREYSLQVLKNARAMADALLERGYSLVSG
GTDNHLVLVDLRPKGLDGARAERVLELV SITANKNTCPGDRSAITPGGLRLGAPALTSRQFREDDFRRVVD FIDE
GVNIGLEVKSKTAKLQDFKSFLLKDSETSQR LANLRQRVEQFARAFPM PGFDEH

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FIGURE 1081

AAAGCAGAATTGAGAGTTTGTTCCTTACACACAAGTTTAATGCCACCTTCCTCTGTCTGCCATGGACCAACAAGCA
ATATATGCTGAGTTAACTTACCCACAGACTCAGGCCCAGAAAGTTCTTCACCTTCATCTCTTCCTCGGGATGTC
TGTCAGGGTTCACCTTGGCATCAATTTGCCCTGAAACTTAGCTGTGCTGGGATTATTCTCCTTGTCTTGTTGTT
ACTGGGTGAGTGTTTTCAGTGACATCCTTAATACAGAAATCATCAATAGAAAAATGCAGTGTGGACATTCAACAG
AGCAGGAATAAAACAACAGAGAGACCGGGTCTCTTAACTGCCCAATATATTGGCAGCAACTCCGAGAGAAATGC
TTGTTATTTTCTCACACTGTCAACCCTTGGGAATAACAGTCTAGCTGATTGTTCCACCAAAGAATCCAGCCTGCTG
CTTATTCGAGATAAGGATGAATTGATACACACACAGAACCTGATACGTGACAAAGCAATTCTGTTTGGATTGGA
TTAAATTTTTCATTATCAGAAAAGAAGTGGAGTGGATAAACGGCTCTTTTTTAAATTCATGACTTAGAAATT
AGAGGTGATGCTAAAGAAAACAGCTGTATTTCCATCTCACAGACATCTGTGTATTCTGAGTACTGTAGTACAGAA
ATCAGATGGATCTGCCAAAAGAAGTAAACACCTGTGAGAAATAAAGTGTATCCTGACTCTTGA

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FIGURE 1082

MDQQAIYAE LNLP TD SGPESSSPSSLPRDVCQGSPWHQFALKLSCAGIILLVLVVTGLSVSVTSLIQKSSIEKCS
VDIQQSRNKTTTERPGLLNCPIYWQQLREKCLLFSTVNPWNNSLADCSTKESLLLIIRDKDELIHTQNLIIRDKAI
LFWIGLNFSLSEKNWKWINGSFLNSNDLEIRGDAKENS CISISQTSVYSEYCS TEIRWICQKELTPVRNKVYPDS

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FIGURE 1083A

GCCCCAGATCGGAAGTGACGGAGACGTGCTAGCGCGTCGAAGGTAGCTCTATGGTTTTCTCGCGTTCTTGAGTC
GGGAAATGGCCGCTGTGTGGTTGCAACGGAGATAAATCCCGGAACCGGATTCCGGCGTGTGAGGAATTCGAATT
TAGAGTTTAAATTTCTCAGAGCATTCTCTCCAGGAAGAATTTTTACAGTATCTCAAAGACTTCACTTGACTTCTTG
ATCCTGCATAAAACCAAGGAGAAAAAGAAATCGGTCGCTCCAATTCTAGATCACATTCTTCAAGGTCAAAGTCTAG
ATCACAGTCTAGTTCTCGATCAAGATCAAGATCTCATTCTAGAAAAGAGCGATACAGTTCTAGGTCTCGTTCCAG
AACATATTCAAGGTCTCGTAGTAGAGATCGTATGTATTCTAGAGATTATCGTCGCGATTACAGAAATAATAGAGG
AATGAGACGACCTTATGGGTACAGAGGAAGGGGTAGAGGGTATTATCAAGGAGGAGGAGGTAGATATCATCGAGG
TGGTTATAGACCTGTCTGGAATAGAAGGCACCTAGGAGTCTAGACGAGGTCTTACAGTTCCAGGAGTCCAAA
AAGAAGATCCGTTTCTTCTCAAAGATCCAGAAGCAGATCTCGCCGGTCATATAGATCTTCTAGGTCTCCAAGATC
ATCCTCTTCTCGTTCTTCTATCCCCATATAGCAAACTCTCTGTTTTCTAAAAGACGAGGGTCTCAGGAAAAACAAAC
CAAAAAAGCTGAAGGGGAACCCCAAGAAGAGAGTCCGTTGAAAAGTAAATCACAGGAGGAACCGAAAGATACATT
TGAACATGACCCATCTGAGTCTATCGATGAATTTAATAAGTCATCAGCCACATCCGGTGATATTTGGCCTGGCCT
TTCAGCTTATGATAATAGTCTTAGATCACCCCATAGTCTTCCCTATTGCTACACCACCTAGTCAGAGTTTCATC
TTGCTCTGATGCTCCCATGCTCAGTACAGTTCACCTCTGCAAAAAATACTCCTTCTCAGCATTACATTCCATTCA
GCATAGTCTGAAAGGTCTGGGTCTGGTTCTGTTGGAAATGGATCTAGTCGATACAGTCTTCTCAGAATAGTCC
AATTCATCACATCCCTTACGAAGAAGTCTGCAAGACAATCGCACCACAGAATGCTCCAAGAGATGAGTCTAG
GGGCCGTTCTCGTTTTATCCTGATGGTGGAGATCAGGAACTGCAAAGACTGGGAAGTTCTTAAAAAGGTTTAC
AGATGAAGAGTCTAGAGTATTCCTGCTTGATAGGGTAATACCAGGGATAAAGAGGCTTCAAAGAGAAAGGATC
AGAGAAAGGGAGGGCAGAGGGAGAATGGGAAGATCAGGAAGCTCTAGATTACTTCAGTGATAAAGAGTCTGAAA
ACAAAAGTTTAAATGATTGAGAAGGGGATGACACAGAGGAGACAGAGGATTATAGACAGTTCAGGAAGTCAGTCT
CGCAGATCAGGGTAAAAGTTTTGCTACTGCATCTCACCAGAACTAGAGGAGGAAGGACTCAAGTACAAGTCCAA
AGTTTCACTGAAAGGCAATAGAGAAAGTGATGGATTAGAGAAGAAAAAATTATAAACTTAAAGAGACTGGATA
TGTAAGTGGAAAGGCCTAGCACTACAAAAGATAAGCAAAAGAAGACAAAAATTCTGAAAGAATAACAGTAAA
GAAAGAACTCAGTACCTGAGCAGGTAAAGTCTGAAAAGCTCAAAGACCTCTTTGATTACAGTCCCCCTCTACA
CAAGATCTGGATGCACGAGAAAAGTCTACCTTCAGAGAGGAAGCCCACTTAGGATCAAAATGATAGCGAGTGA
TTCTACCGTCTGAGTCAAACCTCAAATGGCACCCTGTTCTCTTGATGATTCTAACAGACCTGCTTCCCTTGAC
TAAAGACAGGCTGCTTGCTAGTACACTTGTCCATTCTGTCAAGAAGGAGCAAGAATTCCGATCCATCTTTGACCA
CATTAAAGTTGCCACAGGCCAGCAAAAGCACTTCAGAGTCATTTATTCAACACATTGTGTCTTGGTTTCATCATGT
TAAAGAGCAATACTTCAAGTCAGCTGCAATGACCCTAAACGAGCGGTTCACTTCGTATCAGAAAGCCACTGAAGA
ACATAGTACTCGGCAAAAGAGCCCTGAAATACACAGGAGAATTGACATCTCACCAGTACCCTGAGGAAGCATAAC
CCGTTTAGCAGGGGAAGAGAGAGTTTTTAAAGAAGAAAATCAAAGGGAGATAAAAAATTAAGGTGTGACTCTGC
TGACCTTCGGCATGACATTGATCGCCGTAGAAAAGAAAAGTAAAGAACGGGGAGATTCCAAGGGCTCCAGGGA
ATCCAGTGGATCAAGAAAGCAGGAAAAAACTCCAAAGATTACAAGGAATACAAATCTTACAAAGATGACAGTAA
ACATAAAAGAGAGCAAGATCATTCTCGATCTTATCCTCTTCAGCATCACCTTCTTCTCCAGTTCTCGAGAAGA
AAAGGAGAGTAAGAAGGAAAGAGAAGAAGAAATTTAAACTCACCATGAAATGAAAGAATACTCAGGCTTTGCAGG
AGTTAGCCGACCACGAGGAACCTTTTTTGAATTAGAGGCAGAGGAAGAGCCAGAGGAGTTTTTGTGGGACAAA
TACTGGTCCAAACAACTCAAATACTACTTTTTCAAAGAGACCGAAGGAAGAGGAATGGGATCCAGAATATACCCC
AAAGAGCAAGAAGTACTTCTTGATGACGACAGAGATGATGGTGTGGATTATTGGGCCAAAAGAGGAAGAGGTCTG
TGGTACTTTTTCAACGTGGCAGAGGGCGCTTTAACTTCAAAAAATCAGGTAGCAGTCTAAATGGACTCATGACAA
ATACCAAGGGGATGGGATTGTTGAAGATGAAGAAGAGACCATGGAATAATGAAGAAAAGAAGGACAGACGCAA
GGAAGAAAAGGAATAATAAATATGAAGTAAGATTACAACAGAGCAGAACTTGCACCCACCATTTTTTTTACCTGA
TTTTTGTTTTCAAATAAGAATGTAAGCATTTTACTTAAATTTTACTGTTTGCAAGTAGTCTATAGAAATTTGTT
TTAAGTCTTCAAATATCTTGAGAAATAGTAGACTGTATGTTGAAAATGTACTGAAATAAAGTAGAAAATTTGTTA
CGTACCATATTTGTAACATCAACTTTTTAAACTTTTTAACGTTTTTGTACATGCATTGTAATTTCTGCTTTGTCT
ATAAGATATGGTCAAGTACAGCTCTGTGAAAGTTCTGATTCTCTTCTTCCCTGTTTGTCATGTTTTATTCTGA
AGTAAACGTTAGCTCTACATATAAATCCTGGAACAGAAATGTTTTATAGAGACTACACTAATTATTTTAACTGTA
TACATCTGTTTAAATTTGAACACACTACATCGTAGGGTGACTGATTTTTGAAGTATACCACAGACAAAAGTTGTT
ACTATGGTAAACTAAGCTAGTTTAACTTGAAGCAATGCTTAAAGGAATTAAGGAAAGGCTTTGCCAAT

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FIGURE 1083B

AGCTAAAAAGTACAAGCTATTAAAAATCAGATTGAAAAGTTTTGAGAAAATGTTATTTTTACTGAAAGCAAGCAG
TGGCCTATAAAGAACATTCTTAGGAGCCTTTTCTATTTGCGTTCAAACTGTGTGTTCTCTTTCTATTCTTATTT
GATAGTTTGAGTCATGGTCTTAGATATTAGCTATTTGTGAGAGGAACTGGTTTGTAAACAATACTGCAAATAGAA
ACCCCATTTCTACTGAACATCCTAGTTTTTAAACAGAAGAAAACTGTAATCCTGGGGTTGGTATGTAGGAGGTCT
ATCCTGCAGAATAAGTTGATACATTAGTACCTGATTTTCATATCTTACATATTTATTTGAGCTGAACATTAGTTTG
TAGTGTAACTATTAGTAAAAATAGAGAAACACAGCATACTGTTTATTAAATAGTATTTTAAAAAAATGTTTTTCA
AATGTCACCAATAAAAGTTTTGGCAGGAAGCTTGTGCGGCATTGATCTAACCTTTTTCCCCCCCATTTCAGTTG
CAGTTTTTGTAGAATGGCTTTTTCTTTTTCTCTTAAGAGTTCTATTCTTCAGGTAGATAATTTTTCAAATGTGA
ATTATCTTTTGTGTCTATATTGATAGCTCTTAAAGGAGTGAAAATCTAAAATAGTAAATTTCAATGTTAAGTGTC
TGCTTTATGGGCATATATAAAAGTAGACACATTTTCAATTTGTTAATTTAGTTGTGTGTGTGTGTAAAAGGAGCTA
ATGCTTATTCTGTTAATGTAACTTTTGAAGATCTTAAGTGTATTGCTCTTTTCATCTTAAACACTTTTCGAGGATT
TGCAGTGGCTCTAGCACCTAGATTACAGCCAGGAACATTGGTTAAGAACTGTTGGAACAAAACTAAAAGCAAAC
TCAACATATGTGATGTTTTATGGCCCTCAGATCCTTAGTATTGTGTGATTTTCCCCCGTTAACATGTCTTTCTAAA
ATTGTCTATTAAAGCAGAGGAAATACCTGCCAAAGGAAGTATGTATTGCATTAATCAGGGCATAACTAATATTCT
CCTGTTTCAAGATAATACTTATTTACGTGTGAAAGCAACATGGATGTGATTCCCAACACAGAATTTTCATGACCCT
TTTATTGTATACAAATAAATACCATAACAGTTACTTGGTTAGACATCAAATCTGTGTGCATGACTATGTGCTTAT
CCACTTAAGACAATAGGTAAGGGGATCTGAGAAATTATGTAATAGGGAGTGGGAATAAACTACTTAATTCCT
GTGGGCAGGTTATATTTTAAGTTCAAATGCATTGCTTTAACCTTTGGTTACTTTTATTCTGTTAAACAGAATTGA
AGAAAGAGTATTATACCAGAGTGTAGTAGGCTAGGGTGATTGTAAGAACTCTGTAATAGAATGTCATTGTGGATG
TTACCTTTTTTCAGATCCAAGCATATAAAAAGCCTGTATATTTTTTAAAAACACATCTTAACTCCAGCTTTACGA
TATTATAAAAGTTGAATGGTTCCCTCTTGGTAAGGATATTTGCTTACAAGTGCTAGGAAATAACTCACTGATACCT
GCGTTAACATACTTTGTTTTGCCTAGAGAGGGGCAATAAAAATGAACCAAGGATATTTCCAGAAAGGATTAAGA
AAGCTGTTTTAAGAGGCCATGACTCTTTAGGTGTGTATGTGTACCTTTTCAGCATCCTAGGAATTTTTATACTAAA
AGCAAAATGTTTTTCCAGTTAGTCTTCTTCAAGGAATTACTATTGTTTCTTTTGTACAGGTAAAAATCAGTGT
GGGAATTATAATTTGAGAAAAATATTACCCAGTAACATTGAATGTAGATGGCTAAACGATTCTTACTCAGTGTGA
TGTATAATGATGCAACAGGGACCCTTGTAATTTGTCATACGCCAATAAAATGTCACAAGTAAT

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FIGURE 1084

MGRSNSRSHSSRSKSRSQSSSRSRSRSHSRKKRYSSRSRSTYSRSRSRDRMYSRDYRRDYRNNRGMRRPYGYRG
RGRGYYQGGGGRYHRGGYRPVWNRHRSRSPRRGRSRSPKRRSVSSQSRSRSRRSYRSSRSPRSSSRSSSPY
SKSPVSKRRGSQEKQTKKAEGEPQEEPLKSKSQEPPKDTFEHDPSESIDFNKSSATSGDIWPGLSAYDNSPRS
PHSPSPIATPPSQSSSCSDAPMLSTVHSAKNTPSQHSHSTQHSPERSGSGSVGNSSRYSPSQNSPIHHIPSRRS
PAKTIAPQNAPRDESRGRSSFYPDGGDQETAKTGKFLKRFTDEESRVFLDRGNTRDKEASKEKGSEKGRAEGEW
EDQEALDYFSDKESGKQKFNDSEGDDTEETEDYRQFRKSVLADQGKSFATASHRNTEEEGLKYKSKVSLKGNRES
DGFREEKNYKLKETGYVVERPSTTKDKHKEEDKNSERITVKKETQSPEQVKSEKLKDLFDYSPPLHKNLDAREKS
TFREESPLRIKMIASDSHRPEVKLKMAPVPLDDSNRPASLTDRLLASTLVHSVKEQEFRSIFDHIKLPQASKS
TSEFSIQHIVSLVHHVKEQYFKSAAMTLNERFTSYQKATEEHSTRQKSPEIHRRIDISPSTLRKHTRLAGEERVF
KEENQKGDKKLRCDLADLRHIDRRRKERSKERGDSKGSRESSGSRKQEKTPKDYKEYKSYKDDSKHKREQDHSR
SSSSSASPSSPSSREEKESKKEREEFKTHHEMKEYSGFAGVSRPRGTFFRIRGRGRARGVFAGTNTGPNNSTT
FQKRPKEEWDPEYTPKSKKYFLHDDRDDGVDYWAKRGRGRGTFRGRGRFNFKKSGSSPKWTHDKYQGDGIVED
EETMENNEEKKDRRKEEKE

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FIGURE 1085

ATGACCATGGAAACAGTTGAATCCCAGCATGATGGAAGTATAACAGCTTCTTTGACAGAGAGCAAGTCTGCTCAT
GTGCAGACTCAGACTGGGCAAATTTCAATCCCTGCTTTAGCTCAGTGCAGTGAGCTGAGATCAGGCACCAGAAGA
GGCTCCCCAGCTGTAACCTCTAGTGCAGTTACCTTCGGGCCAAACTATACATGTCCAGGGAGTAATTCAGACACCA
CAGCCATGGGTATTTCAGTCATCAGAAATACACACCGTTTCAGGTAGCAGCAATTGCAGAGACAGATGAATCTGCA
GAATCAGAAGGTGTAATTGATTCTCATAAACGTAGAGAAATCCTTTCACGAAGACCCCTCTTATAGGAAAATACTG
AATGAAGTGTCCCTCTGATGTGCCTGGTGTTCCCAAGATTGAAGAAGAGAGATCAGAGGAAGAAGGAACACCACCT
AGTATTGCTACCATGGCAGTACCAACTAGCATATATCAGACTAGCACGGGGCAATACATTGCTATAGCCCAAGGT
GGAACAATCCAGATTTCTAACCCAGGATCTGATGGTGTTTCAGGGACTGCAGGCATTAACAATGACAAATTCAGGA
GCTCCTCCACCAGGTGCTACAATTGTACAGTACGCAGCACAAATCAGCTGATGGCACACAGCAGTTCTTTGTCCCA
GGCAGCCAGGTTGTTGTTCAAGCTGCCACTGGTGACATGCCAACTTACCAGATCCGAGCTCCTACTGCTGCTTTG
CCACAGGGAGTGTTGATGGCTGCATCGCCCGGAAGTTTGACAGTCCCCAGCAGCTGGCAGAAGAAGCAACACGC
AAACGAGAGCTGAGGCTAATGAAAAACAGAGAAGCTGCCCGGGAGTGTGCGAGGAAGAAGAAAGAATATGTCAA
TGTCTTGAAAATCGTGTGGCTGTGCTTGAAAACCAAAACAAGACTCTCATTGAGGAACTCAAGGCCCTCAAAGAT
CTTTATTGCCATAAAGTAGAGTAACTGTCTTTGACTTGGACCTTGTTTACTCTAATCAAGGCAGGAGATGCAGCA
GTCCTACTTATTGCCATGTGGACTTGTGGGAAGGACACGTGTGACCCTTAAGAATCCAGTTTGGATTAGTGTGTTG
AAATTGAATTGGGAATGTTGTTCCAGGATGTGGAATGCAGCGTGATCACACTTACCGAGCTTACTTTGATCTGTT
TGTCAATAGCATGCAAAAAATGCTTTGTTGCCCTTTGCTTCTGCTTTTTTTCAGGGAAGCTGCCAAAGAATGTC
GACGTGCAAGAAAGAATATGTAAAATGCCTGGAGAGCCGAGTTGCAGTGCTGGAAGTCCAGAACAAGAAGCTTA
TAGAGGAACTTGAAACCTTGAAAGACATTGTTCTCCCAAACTGATTACTAGAAATATTTAACTATGAAGTAT
TACAGA

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FIGURE 1086

MTMETVESQHDGSITASLTESKSAHVQTQTGQISIPALAQCELSRGTRRGSPAVTLVQLPSGQTIHVQGVQTP
QPWVIQSSEIHTVQVAAIAETDESAESEGVIDSHKRREILSRPSYRKILNELSSDVPGVPKIEERSEEEGTPP
SIATMAVPTSIYQTSTGQYIAIAQGGTIQISNPGSDGVQGLQALMTNSGAPPPGATIVQYAAQSADGTQQFFVP
GSQVVVQAATGDMPTYQIRAPTAALPQGVVMAASPGSLHSPQQLAEEATRKRELRLMKNREAARECRRKKKEYVK
CLENRVAVLENQNKTLIEELKALKDLYCHKVE

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FIGURE 1087

GTCAGTCGCGAGCGAACGACCAAGAGGGTGTTCGACTGCTAGAGCCGAGCGAAGCGATGCCTAAATCAAAGGAAC
TTGTTTCTTCAGGCTCTTCTGGCAGTGATTCTGACAGTGAGGTTGACAAAAAGTTAAAGAGGAAAAAGCAAGTTG
CTCCAGAAAAACCTGTAAAGAAACAAAAGACAGGTGAGACTTCGAGAGCCCTGTCATCTTCTAAACAGAGCAGCA
GCAGCAGAGATGATAACATGTTTCAGATTGGGAAAATGAGGTACGTTAGTGTTTCGCGATTTTAAAGGCAAAGTGC
TAATTGATATTAGAGAATATTGGATGGATCCTGAAGGTGAAATGAAACCAGGAAGAAAAGGTATTTCTTTAAATC
CAGAACAATGGAGCCAGCTGAAGGAACAGATTTCTGACATTGATGATGCAGTAAGAAAACGTAAATTCGAGCC
ATATAAATAAACCTGTACTGTTCTAGTTGTTTTAATCIGTCTTTTTTACATTAGCTTTTGTTCCTAAATGTTCT
CCAAGCTATTGTATGTTTGGATTGCAGAAGAATTTGTAAGATGAATACTTTTTTTAATGTGCATTATTAATAAT
ATTGAGTGAAGCTAATTGTCAACTTTATTAAGGATTACTTTGTCTGCCACCACCTAGTGTAATAATAATCAAG
TAATACAATCTTAACGTGTTGTGGCCTTTTTTGATCATAAGAGTTGGTACTGTTTAAGGCCAAAAGTAACAGTTT
TATAGATCTTTTAGTTTCAACTCAGCTTTTACAATAAAAAGGATTTGTATTGCATTGAGTTTATAAACTTTTGGT
TTGTGAACCTCATATTTGATCTTTTCTCTCCAATCAAATGTCTAGGCTTGTTGACTTCCACCCCCAATGGTTT
TTCCTCTTTTTATTTACTTCATTTTCCTTAATAACTTAATCTCTTCATGTTCAAGTTTTACTTCACTCTTTAT
TCTTTTCTTTGATTATGGTATGCTTATTTGGAAAGTCAGTGAACTGTCAAATGTTATCTCAATAAGATACTTA
TATGAGAACTACAATCACCGAATCTACTGTATTCAATATTAGCAGATCTAATTTGATAACAACATGGCTTGTGT
GAAACTGAGCAGGTGTTTGTTTACCCATAGTGTTCTGTGTAGTTATTGCTTAGTCTGCAGAAAATAATGACTTA
GATGAGATGTCTGACTTGCTTTCACTTATTAAACATGTTACCATGGGATGATGTCTGTAACATCAGATATTGTT
CAACTAGACTAGGATTTAATAAAAATTGTGAAAGCTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1088

MPKSKELVSSGSSGSDSDSEVDKKLKRKKQVAPEKPVKKQKTGETSRALSSSKQSSSSRDDNMFQIGKMRYSVR
DFKGKVLIDIREYWMDPEGEMKPGRKGISLNPEQWSQLKEQISDIDDAVRKL

1208/2682
FIGURE 1089

CATGCTCTGGGCGCGGCAAAGGCGGGAAGGGTCTGGGCAAAGGAGGCGCTAAGCGCCACCGCAAAGTTCTGCGCGA
CAACATTCAGGGCATCACCAAGCCCGCCATCCGACGCCTGGCACGGCGTGGAGGCGTTAAGCGCATCTCAGGCCT
TATATACGAGGAGACACGCGGAGTTCTTAAAGTGTTTTGGAGAATGTAATCCGCGATGCAGTTACCTACACGGA
GCACGCCAAACGCAAGACAGTCACAGCCATGGACGTGGTTTACGCGCTCAAGCGCCAGGGCCGCACCCTGTATGG
CTTTGGCGGCTGAGTGTTTTACTTACTTACACGGTTCCTCAAAGGCCCTTCTCAGGGCCACCCA

1209/2682
FIGURE 1090

MSGRGKGGKGLGKGGAKRHRKVL RDNIQGITKPAIRRLARRGGVKRISGLIYEETRGVLKVFL ENVIRDAVYTE
HAKRKTVTAMDVVYALKRQGRTLYGFGG

1210/2682
FIGURE 1091

ATGAGACTTCTCATCCTGGCCCTCCTTGGCATCTGCTCTCTCACTGCATACATTGTGGAAGGTGTAGGGAGTGAA
GTCTCACATAGGAGGACCTGTGTGAGCCTCACTACCCAGCGACTGCCAGTTAGCAGAATCAAGACCTACCCATC
ACGGAAGGCTCCTTGAGAGCAGTAATTTTATTACCAAACGTGGCCTAAAAGTCTGTGCTGATCCACAAGCCACG
TGGGTGAGAGACGTGGTCAGGAGCATGGACAGGAAATCCAACACCAGAAATAACATGATCCAGACCAAGCCAACA
GGAACCCAGCAATCGACCAATACAGCTGTGACCCTGACTGGCTAG

1211/2682
FIGURE 1092

MRLILALLGICSLTAYIVEGVGSEVSHRRTCVSLTTQRLPVSRIKTYTITEGSLRAVIFITKRLKVCADPQAT
WVRDVVRSMRKSNTNRNNMIQTKPTGTQQSTNTAVTLTG

1212/2682
FIGURE 1093A

ATGAGGAGGGACGAGCGAGACGCCAAAGCCATGCGGTCCCTGCAGCCGCCGGATGGGGCCGGCTCGCCCCCGAG
AGTCTGAGGAACGGCTACGTGAAGAGCTGCGTGAGCCCCCTTGGCGCAGGACCCTCCGCGCGGCTTCTTCTTCCAC
CTCTGCCGCTTCTGCAACGTGGAGCTGCGGCCGCCGCCGGCTTCTCCCCAGCAGCCGCGGCGCTGCTCCCCCTTC
TGCCGGGCGCGCCTCTCGCTGGGCGACCTGGCTGCCTTTGTCTCGCCCTGCTGCTGGGAGCGGAACCCGAGAGC
TGGGCTGCCGGGGCCGCTGGCTGCGGACGCTGCTGAGCGTGTGTTTCGCACAGCTTGAGCCCCCTCTTCAGCATC
GCCTGTGCTTCTTCTTCTCACCTGCTTCTCACCCGGACCAAGCGGGGACCCGGCCCGGGCCGGAGCTGCGGC
TCCTGGTGGCTGCTGGCGCTGCCCGCTGCTGTACCTGGGGGACTTCTTGGTGTGGCAGTGGTGGTCTTGGCCT
TGGGGGGATGGCGACGAGGGTCCGCGGCCCGCACACGCCCCCGAGGCGGCAGCGGGCAGGTTGCTGCTGGTG
CTGAGCTGCGTAGGGCTGCTGCTGACGCTCGCGCACCCGCTGCGGCTCCGGCACTGCGTTCTGGTGTGCTCTCTG
GCCAGCTTCGCTGGTGGGTCTCCTTACCAGCCTCGGGTCTGCTGCCCTCCGCCCTCAGGCCGCTGCTCTCCGGC
CTGGTGGGGGCGCTGGCTGCTGCTGGCCCTGGGGTTGGATCACTTCTTTCAAATCAGGGAAGCGCCTCTTCAT
CCTCGACTGTCCAGTGCCGCCGAAGAAAAGTGCCTGTGATCCGACCCCGAGGAGGTCCAGCTGCGTGTGCTTA
GGAGAACTGCAGCCAGTTACTATGGCAGTTGCAAAATATTAGGAGACCGTCTGCTTGTATTTCAGAGAA
CAGATGATTTCTTGGGATTGGGACTTAAACAATGGTATAAGCCTCATTATCAAATCTGGAGGTGGAAATGGA
GTTGATCTTTCACTGCTAAATGAGGCTCGCAATATGGTGTGAGATCTTCTGACTGATCCAAGCCTTCCACCACAA
GTCATTTCTCTCTACGGAGTATTAGTAGCTTAATGGGTGCTTTCTCAGGTTCTGTAGGCCAAAGATTAATCCT
CTCACACCATTTCTGGATTTTACCCCTGTTCTGAAATAGAGGACCCAGCTGAGAAAGGGGATAGAAAACCTAAC
AAGGGACTAAATAGGAATAGTTTGCCAACTCCACAGCTGAGGAGAAGCTCAGGAACCTCAGGATTGCTACCTGTT
GAACAGTCTTCAAGGTGGGATCGTAATAATGGCAAAAGACCTACCAAGAATTGGCATTTCAGTCAAGGATGC
TATCTAAATGGGCTTTTAAATCAAATCTACTGACTATCCCGAAGCAAAGGTCATCTTCTGTATCACTGACTCAC
CATGTAGGTCTCAGAAGAGCTGGTGTGTTTGTCCAGTCTGAGTCTGTGAATTCTTCAACCATGGACCAGTGTCT
ACTGGCCCTCTAACTAATCGATACCCATAGAATTTCTGATACTGCTGATTTTCTTAATAAGCCAAGCGTTATC
TTGCAGAGATCTCTGGGCAATGCACCTAATACTCCAGATTTTTATCAGCAACTAGAAATTCTGATAGCAATCTG
TGTAACAGCTGTGGACATCAAATGCTGAAATATGTTTCAACATCTGAATCAGATGGTACAGATTGCTGCAGTGA
AAATCAGGTGAAGAAGAAAACATTTCTCGAAAGAAATCATTCAAACCTATGGAACTCAACAAGAAGAGGAAACA
GAGAAGAAAGACAGCAGAAAATTATTTAGGAAGGTGATAAGTGGCTAACAGAAGAGGCACAGAGTGAACAGCAA
ACAAATATTGAACAGGAAGTATCACTGGACCTGATTTTAGTAGAAGAGTATGACTCATTAAATAGAAAAGATGAGC
AACTGGAATTTTCCAATTTTGAACCTGTAGAAAAGATGGGAGAGAAATCAGGAAGGATTCTCAGTCAGGTTATG
TATACCTTATTTCAAGACACTGGTTTATTGGAATATTTAAATTTCCCACTCAACAATTTATGAACATTTTTCGT
GCATTAGAAAATGGCTATCGAGACATTCTTATCACAATCGTATACATGCCACAGATGTGCTACATGCAGTTTGG
TATCTGACAACACGCCAGTTCTTGGCTTACAGCAGATCCACAATGGTTGTGGAACAGGAAATGAAACAGATTCT
GATGGTAGAATTAACCATGGGCGAATTGCTTATATTTCTTCGAAGAGCTGCTCTAATCCTGATGAGAGTTATGGC
TGCTGTCTTCAAACATTCCTGCATTAGAATTGATGGCTCTATACGTGGCAGCTGCCATGCATGATTATGATCAC
CCAGGGAGGACAAATGCATTTCTAGTGGCTACAAATGCCCTCAGGCAGTTTATACAATGACAGATCTGTTCTG
GAAATCATCATGCTGCGTCAGCTTGAATCTATATCTTTCTCGCCAGAATACAACCTTCTTCTCATCTTGAT
CATGTGGAATTCAGCGCTTTTCGTTTTTAGTCATTGAAGCAATCCTTGCTACGGATCTTAAAAAGCATTTTGAT
TTTCTCGCAGAAATCAATGCCAAGGCCAAATGATGTAAATAGTAATGGCATAGAATGGAGTAATGAAAATGATCG
CCTCTTGGTATGCCAGGTGTGCATCAAACCTGGCAGATATAAATGGCCAGCAAAAGTTCGAGACTTGCAATTTGAA
ATGGACAGAAGGCATTGTCAATGAATTTTATGAGCAGGGAGATGAAGAAGCAATCTTGGTCTGCCCATCAGTCC
ATTCATGGATCGTTCTTCTCCTCACTAGCAAACTCCAAGAATCTTTATCACCCACATAGTGGGTCCCCTGTG
TAACCTCTATGATGCTGCTGGTTTGTACAGGTCACTGGTTAGAAGCAGAAGAGGATAATGATACTGAAAGTGG
TGATGATGAAGACGGTGAAGAATTAGATACAGAAGATGAAGAAATGGAAAACAATCTAAATCCAAAACCAAG
AAGGAAAAGCAGACGGCGAATATTTGTGAGCTAATGCACCACCTCACTGAAAACCACAAGATATGGAAGGAAAT
CGTAGAGGAAGAAGAAAAATGTAAAGCTGATGGGAATAAATGCGAGGTGGAGAATTCCTCCTTACCTCAAGCAGA
TGAGATTCAGGTAATTGAAGAGGCAGATGAAGAGGAATAGCGACAGTTTGAAGTAAAGAAAAGTCAATTGAAGA
AGCCCAGAGGGTTGTGCCAGGGGCGAAAATCATTGCCTAGTGTTCACCGGCTGACTCTCACTGACCATTCCCA
TGTGGACAGGCCTTAATACTGTGAGAGGATCCTTGTCTGCTGGCAGTTTCCCACTCCTATGCATTTTCACAGGA
ACTAGAAAATATTCTTAAACCAAAAAATACCATCCGTGTTGACCCATGTTGCAGAGCCCTTACTTAAATCCTTCA

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FIGURE 1093B

CTGGTGTATGAATACTTTGTCATAATGCTGCTTTGCTGGGTAGTGAGCTCTTATTTTTCTACTGGGGGTCAGCTAT
AACTAAAACTCAAGTGACATATTTTCAGTTACCAAAGTGGCCAGGAACCTTTTGCTTTTATGAAAAATAGATTTCAT
ATTGTATTTCCCAAGTGTGTCTTTTATGTCTTTGAATGTTTTGGAGAAAAGTCTATGCCTGTCTAAAAATGAATCC
AGTGTTCCTTTCTGAGGGATTCTGCTCAATGCAATACACTGTTCAGTGTCTATTCTCCAGCTAGGTTTATCCA
TGAAGGACTGAGTGACCTTTGTTGTATTTAACAAAATCCAGGTGCATCAATTTCTGATGCTTTTTACTATTGTGT
ATTATCTACTATGTGTGTTTTATTTCTGCTGAGAGTATTCAGGTTTGCCATGGACATCAGAAGTTTGAATTCAG
TCTTATCTTATGTTCCATGGCTGAATTTTAAAGCTGTTTAGGTTTAAACAATGAAGGGATTATTCTTTAGTCAAA
ATTGTTGTTTTTACTCTAGCTCAGGATTCGTATTTTAAAGATTTAGTTAATATAAACACAGCACAGATTTGTCA
GAAGAAAAAAATTTGCTGTAATACCAAACCTCATCAAAGATACAGAAAAAAGAAATATAGTGAGCCCT
AAAGGACACATACATTGAATAAATAATTGGAACATGTGGTTATCTTTAGATCCACATCTTAGCTGTCAATTTGTTT
ACTCTAAACTGATGTTTCTCTGTTAATTTCCCTCTGCTAAAGACTACATGACAGAAATGACCTATCACT
ACTTATTATTCTGAAGCCTAACTGCAAGACTGATTTCTGAGAACAAGTAAAGAACTGGAATACTTATTTTTTCAT
ATAAAATCTAAATGTGTTAATAAATCATTTCATACAAAAGTACATTATTAAATAACCACATTATTAAATAAAT
GCAAGAAATGGACCATATTTACAATGTTTTGTAACCTTGCTAGTGTGTGGATATGTACCCTACTTGTGAAATAC
ATTGGAAGATATAAAGAGCAGCCAAAATGATGGCAAAATGGTAGGCTAATATTTTCTATTATTATTGGAGAACAT
ATCATATTTTGAATCATGCAATTTTGCACACAGTGAAACCATTAATTTTCCAAGGTAATTCCTTTAGAATATGG
TATTGGCATGCAGTTTCTTACTTATCTAGAATATTTGGCTTATCTGAAAGATATCAATTTAAGATCTCTGGAAGT
GTTAGAATTTTGTATCCTTACAGTGTCAATATTTAATGAATCACTAAGCTTTATTATTAGACGTGTGTGAGTGA
GTGCTGAGTTTCTTGCTGCCACTTTTGTTACCATGTGCACACACTATGTGTAAACCAGTCCCACCCTTATTACT
AATAAAATTTTGACTGATAATTTATATTTGCACTTACAATATATATATCCTGTCCTTATATTTCTCTAGAGTACA
TTTTCCATCATGTTAAGTGTATTTCTGCTATTATTTCTCTCTCCTGCAGAATACATACAAGTGTATGTGTATAAA
GTCATACATGTACAAGCATGCATATTGAGATTGAATCACATTTCCATACTGTCTGTATTTTATTGGGTTTTATA
TTGGGTTTCTTTAGTTTATGTTGTTTTCTCAAAAGCAGCATTTTAAATTACGAATACTGGACTTATTGGATTTAA
TTATAAATCCAATTACTACTGGAACTCATTTTTACATAATATAGTCCTTAAATTATTTAACCCTTGCTAAGTAA
TTGACATATGTAACAATAACTAGCCTAAAGAAACCCAAAAAAGTATCTCTCCGAGCTGAAACTAAAAATTG
TAAGTGTAAGAAAGAATGTGAGAATATATTAAATGCACACTGTACCATTAGATGAAATCTTACTTGAGAAATTGC
CATAAGCCATATTACAGATCTTACTTTGATTGTTACTGAATCAGATTAATTTCTTGTATAATAATTTTCATCAT
AAATTTTCTATTTTAAAGCCGCTGGTACTAGAAATATTCTTTAATGCTATATCTATGTACCTACTGACACATT
TTTCTCCATAAAAGTACTTTTAAAAATTACTTCATGATTTG

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FIGURE 1094

MRRDERDAKAMRSLQPPDGAGSPPESLRNGYVKSCVSPLRQDPPRGFFFHLCRFCNVELRPPASPQQPRRCSPF
CRARLSLGDLAAFVLALLLGAEPESWAAGAAWLRTLLSVCSHSLSPLFSIACAFFFLTCTFLTRTKRGPGRSCG
SWWLLALPACCYLGDFLVQWWSWPWGDGDAGSAAPHTPPEAAAAGRLLLVLSVCVGLLLTLAHPRLRLRHCVLVLLL
ASFVWWVSFTSLGSLPSALRPLLGLVGGAGCLLALGLDHFFQIREAPLHPRLSSAAEEKVPVIRPRRRSSCVSL
GETAASYYGCKIFRRPSLPCISREQMILWDWLKQWKPHYQNSGGNGVDLSVLNEARNMVSDLLTDPSPQPQ
VISSLRSISSLMGAFSGSCRPKINPLTPFPGFYPCSEIEDPAEKGDRKLNKGLNRNSLPTPQLRRSSGTSGLLPV
EQSSRWDRNNGKRPHQEFGISSQGCYLNGPFNSNLLTIPKQRSSSVSLTHHVGLRRAGVLSSLSFVNSSNHGPVS
TGPLTNRSPIEF PDTADFLNKPSVILQRS LGNAPNTPDFYQQLRNSDSNLCNSCGHQLKYVSTESDGTDCSCG
KSGEEENIFSKEF KLMETQEEETEKKDSRKLFEQEGDKWLTEEAQSEQQTNIEQEVSLDLILVEEYDSLIEKMS
NWNFPPIFELVEKMGEKSGRILSQVMYTLFQDTGLLEIFKIPTQQFMNYFRALENGYRDIPIYHNRIHATDVLHAVW
YLTTTRPVPGLOQIHNCGGTGNETDSDGRINHGRIAYISSKSCSNPDESYGCLSSNIPALELMALYVAAAMHDYDH
PGRITNAFLVATNAPQAVLYNDRSVLENHHAASAWNLYLSRPEYNFLHLDHVEFKRFRFLVIEAILATDLKKHFD
FLAEFNAKAK

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FIGURE 1095

GTTCATTACTACAGGAAAACTGTTCTCTTCTGTGGCACAGAGAACCCTGCTTCAAAGCAGAAGTAGCAGTTCCG
GAGTCCAGCTGGCTAAAACTCATCCAGAGGATAATGGCAACCCATGCCTTAGAAATCGCTGGGCTGTTTCTTGG
TGGTGTGGGAATGGTGGGCACAGTGGCTGTCACTGTGCCTCAGTGGAGAGTGTGCGCCTTCATTGAAAACAA
CATCGTGGTTTTTTGAAAACTTCTGGGAAGGACTGTGGATGAATTGCGTGAGGCAGGCTAACATCAGGATGCAGTG
CAAAATCTATGATTCCCTGCTGGCTCTTTCTCCGGACCTACAGGCAGCCAGAGGACTGATGTGTGCTGCTTCCGT
GATGTCCTTCTTGGCTTTTCATGATGGCCATCCTTGGCATGAAATGCACCAGGTGCACGGGGGACAATGAGAAGGT
GAAGGCTCACATTCTGTGACGGCTGGAATCATCTTCATCATCACGGGCATGGTGGTGTCTATCCCTGTGAGCTG
GGTTGCCAATGCCATCATCAGAGATTTCTATAACTCAATAGTGAATGTTGCCCAAAACGTGAGCTTGGAGAAGC
TCTCTACTTAGGATGGACCACGGCACTGGTGTGATTGTTGGAGGAGCTCTGTTCTGCTGCGTTTTTTGTTGCAA
CGAAAAGAGCAGTAGCTACAGATACTCGATACCTTCCCATCGCACAAACCCAAAAAGTTATCACACCGGAAAGAA
GTCACCGAGCGTCTACTCCAGAAGTCAGTATGTGTAGTTGTGTATGTTTTTTAACTTTACTATAAGCCATTTA
CTTCAAAATGACATTGCTAAAGACTGCATTATTTTACTACTGTAATTTCTCCAGACATAGCATTATGTACATAG
ATGAGTGTAAATTTATATCTCACATAGAGACATGCTTATATGGTTTTATTTAAATGAAATGCCAGTCCATTAC
ACTGAATAAATAGAACTCAACTATTGCTTTTCAGGGAAATCATGGATAGGGTTGAAGAAGGTTACTATTAATTGT
TTAAAAACAGCTTAGGGATTAATGTCTCCATTTATAATGAAGATTAAATGAAGGCTTTAATCAGCATTGTAAA
GGAAATTGAATGGCTTTCTGATATGCTGTTTTTTAGCCTAGGAGTTAGAAATCCTAACTTCTTTATCCTCTTCTC
CCAGAGGCTTTTTTTTTCTTGTGTATTAAATTAACATTTTTTAAAAAGCAGATATTTGTCAAGGGGCTTTGCATT
CAAAGTCTTTTCCAGGGCTATACTCAGAAGAAAGATAAAAGTGTGATCTAAGAAAAAGTGATGGTTTTAGGAAA
GTGAAAATATTTTTGTTTTGTATTTGAAGAAGAATGATGCATTTTGACAAGAAATCATATATGTATGGATATAT
TTTAATAAGTATTTGAGTACAGACTTTGAGGTTTCATCAATATAAATAAAAGAGCAGAAAAATATGCTCTGGTTT
TCATTTGCTTACCAAAAAACAACAACAAAAAGTTGTCCTTTGAGAACTTCACCTGCTCCTATGTGGGTACCT
GAGTCAAAATGTCAATTTTTGTTCTGTGAAAAATAAATTTCTTCTTGTACCATTTCTGTTTAGTTTTACTAAAA
TCTGTAAATACTGTATTTTTCTGTTTATTCCAAATTTGATGAACTGACAATCCAATTTGAAAGTTTGTGTGAC
GTCTGTCTAGCTTAAATGAATGTGTTCTATTTGCTTTATACATTTATATTAATAAATTTGTACATTTTTCTAATTA
TTTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1096

MATHALEIAGLFLGGVGMVGTVAVTVMQWRVSAFIENNIVVEENFW EGLWMNCVRQANIRMQCKIYDSLLALSP
DLQAARGLMCAASVMSFLAFMMAILGMKCTRCTGDNEKVKAHILLTAGIIFIITGMVVLIPVSWVANAIIRDFYN
SIVNVAQKRELGEALYLGWTTALVLIVGGALFCCVFCCNEKSSSYRYSIPSHRTTQKSYHTGKKSPSVYSRSQYV

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FIGURE 1097

CCACGCGTCCGGTTATCAGCAGGATCCATGCCGCCAGAGTAAAGCTTTCTACCCTTTACTCCCTGCAAAGAAACA
AGAGTGCTTATCCCAGCTAAGCTCCAGGGTTAAAACCTCTATGCTGGTCATTCCCTTCAGGATTGGCACTCACCA
ACATACCCTTCTTTCAAGTGAAAAGGCATCTCTTTAATGGTCCTGACCTTTGGAATAGGAAGCATGTACCCTGG
ACAGAGCACTTCAAACCTAGAGGAACCATAAATCCATGGCTAACCTTGACAAATACACTGAAACATTCAAGATGGG
TAGCAACAGTACCAGCACTGCTGAGATTACTGTAATGTCACTAATGTGAAATTTCAATACTCCCTCTATGCAAC
CACCTATATCCTCATATTCATTCCCTGGTCTTCTGGCTAACAGTGCAGCCTTGIGGGTTCTGTGCCGCTTCATCAG
CAAGAAAAATAAGCCATCATTTTCATGATCAACCTCTCTGTGGCTGACCTTGCTCATGTATTATCTTTACCCCT
CCGGATTTACTATTACATCAGCCACCCTGGCCTTTCCAGAGAGCCCTTTGCCTGCTCTGCTTCTACCTGAAGTA
TCTCAACATGTATGCCAGCATTTGTTTCCTGACGTGCATCAGTCTTCAAAGGTGCTTTTTCTCCTCAAGCCCTT
CAGGGCCAGAGACTGGAAGCGTAGGTACGATGTGGGCATCAGTGCTGCCATCTGGATCGTTGTGGGGACTGCCTG
TTTGCCATTTCCCATCCTGAGAAGCACAGACTTAAACAACAACAAGTCCTGCTTTGCTGATCTTGATACAAGCA
AATGAATGCAGTTGCGTTGGTCGGGATGATTACAGTTGCTGAGCTTGCAAGATTGTGATCCCAGTGATCATCAT
CGCATGGTGATCCTGGAAAACCTACTATATCCTTGAGACAGCCACCAATGGCTTTCCAAGGGATCAGTGAGAGGCA
GAAAGCACTGCGGATGGTGTTTCATGTGTGCTGCAGTCTTCTTCATCTGCTTCACTCCCTATCATATTAACTTTAT
TTTTTACACCATGGTAAAGGAAACCATCATTAGCAGTTGTCCCGTTGTCCGAATCGCACTGTATTTCCACCCTTT
TTGCCTGTGCCTTGCAAGTCTCTGCTGCCTTTTGGATCCAATTCTTTATTACTTTATGGCTTCAGAGTTTCGTGA
CCAACTATCCCGCCATGGCAGTTCTGTGACCCGCTCCCGCCTCATGAGCAAGGAGAGTGGTTCATCAATGATTGG
CTAAAATTAAAGATATCTCTTTAATTACGCCTTTGTTTACCTACGTTTCCTGTCTTTTTCCAAAGGCCAGAATTGT
CAACCAATTTCTTTAATTGAACATTGTAAAAACAGGAATAAGTACTTTGTGTAATATTCACAGTCAACAGGGG
TGTGATGGTGAAGGCAGAGTGTGAAAAACGTGAGAGAGGAAGAGAAAATAGATTACCTGATT

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FIGURE 1098

RNHKSMANLDKYTETFKMGSNSTSTAEIYCNVTNVKFQYSLYATTYILIFIPGLLANSAALWVLCRFISKKNKAI
IFMINLSVADLAHVLSLPLRIYYYISHHWPFORALCLLCFYLYLNMYASICFLTCLQRCFFLLKPFRRARDWK
RRYDVGISAAIWIVGTACLPPILRSTDNNNKSCFADLGYQMNAVALVGMITVAELAGFVIPVIIIAWCTWK
TTISLRQPPMAFQGISERQKALRMVFMCAAVFFICFTPYHINFIFYTMVKETIISSCPVVRIALYFHPFCLCLAS
LCCLLDPIIYYFMASEFRDQLSRHGSSVTRSRMSKESGSSMIG

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FIGURE 1099

GGCACGAGGGACAAGCTCAACGAGAAGATGCCCTCGAGCTCACGGAGAAGCTAGACCAAGACTGGAAGAAATTC
AGACTCTCCTGTCCACAAAACCTCCCAAGTCAGAGAACAGAGACAAAAAGGAAAAACCCAGCCCGATGCATATG
ACATGATGGTTTCGCGAGCTTGGCTTTGAAATGAAGGCGCAGCCCTCTAACAGGATGAAGACGGAGGCAGAATTGG
CAAAGGAAGAGCAGGAGCACCTCAGGAAGCTGGAGGCTGAGAGACTTCGAAGAATGCTTGGAAAGGATGAGGATG
AAAATGTTAAGAAACCAAAACATATGTCAGCAGATGATCTGAATGATGGCTTCGTGCTAGATAAAGATGACAGGC
GTTTGCTTTCCCTACAAAGATGGAAAGATGAATGTCGAGGAAGATGTCCAGGAAGAGCAAAGCAAGGAAGCCAGTG
ACCCTGAGAGCAACGAGGAAGAAGGTGACAGTTTCAGGCGGGGAGGACACAGAGGAGAGCGACAGCCCAGATAGCC
ACTCGGACCTGGAATCCAACGTGGAGAGTGAGGAAGAAAACGAGAAGCCAGCAAAAGAGCAGAGGCAGACTCCTG
GGAAAGGGTTGATAAGCGGCAAGGAAGAGCTGGAAGAGCTACCAGAGACGAGCTGCCCTACACGTTTCGACGCCC
CTGAATCCTATGAGGAAGTGAATCTCTGTTGTTAGGAAGATCGATGGAAGAGCAGCTTTTGGTGGTGGAGAGAA
TTCAGAAGTGCAACCACCCGAGTCTCGCAGAAGGAAACAAAGCAAAATTAGAAAACTGTTTGGCTTTCTTTTGG
AATACGTTGGCGATTTTGGCTACAGATGACCCACCAGACCTCACAGTCATTGATAAGTTGGTTGTGCACTTATATC
ATCTTTGCCAGATGTTTCCCTGAATCTGCAAGTGACGCTATCAAATTTGTTCTCCGAGATGCGATGCATGAGATGG
AAGAAATGATTGAGACCAAAGGCCGGGCGGCATTGCCAGGGTTGGATGTGCTCATTATTTGAAAATCACTGGGC
TGCTATTTCCAACTTCCGACTTCTGGCACCCAGTGGTGACCCCTGCCCTCGTGTGCCTCAGTCAGCTGCTCACCA
AGTGCCCCATCCTGTCCCTCCAGGACGTGGTGAAGGGCCTGTTCTGTGTGCTGCCTGTTCCCTGGAGTATGTGGCTT
TGTCCAGAGGTTTATACCTGAGCTTATTAATTTTCTTCTTGGGATTCTTTACATAGCAACTCCAAACAAAGCAA
GCCAAGGTTCCACTCTGGTGCACCCCTTTCAGAGCGCTTGGGAAGAACTCGGAAGTCTCGTGGTGTCTGCTAGAG
AGGATGTGGCCACGTGGCAGCAGAGCAGCCTCTCCCTCCGCTGGTCTCGAATCCCGACCTCAGGTAATCCACCT
GCCTTGGCCCCCAATTATAGGTGTGAGCCACAGCACCCAGCCAAAAAGTAATTTTTTTTAGAGTAATAATGCT
ATAATGTTGGTGTGATTCCAACCTCCAGCTCCCCCACCCTGCTGCGGTTTGTCTGTAAAACGTCACC
TGATGAAATAGAATGAATCCTGAAATGCACCTCTGGGATCGGGAATGGTCTGTGTGTTATCAGCTGCGACTGGTT
CACTGCGTCTGGACAAGCCTCATGGGGACTGGGGATTCTGGCCAGTGTAATTTCTGTCAACCACGGACGTTTGCC
TTCATGTGTAGAATTTACTGTTGTTATGCAAATTATATTTCAATTATAAATGAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1100

GTGCAGAAAGCACCGTCTTTTACTAGAAGAAGACAATAAAATGTTGGTCAATGAACTGAATCATTGAAAGAAAA
AGAATGCCAATATGAAAAAGAGAAAGCAGAAAGAGAAGTAGCTGTGAGACAGCTTCAACAAAAACGAGATGATGT
CTTAAACAAAGGATCAGCAACAAAGCTCTGCTGGATGCTTCATCGCGTCACTGCACCTATTTAGAAAATGGGAT
GCAGGATTCAAGGAAGAAATTAGACCAGATGAGAAGTCAATTTCAAGAAATACAGGATCAACTTACAGCTACTAT
AAGATGTACTAAGGAGATGGATGGCGACACACAAAAGCTTGAAGTAGAACATGTGATGATGAGAAAAATTATTA
AAAACAGGATGACCAAAATTGAGCGGCTTGAGAAAATCCTGCAGCATTCAAGTTTGATGCTGCAGGTGTTTGAGAG
CTAGATGAAGATATGGACATTTCTGGAATTAAGAGCCCCCTCTACATTGAGCACAAGACAGTGACGAATCCACAT
TCTTCAGCCAGAAAGTCACCTCTGAGAGCCAAATGTCTGACTATAGAAAGGAGAGTCAAAGAATGATAACGACAT
CTCAGGAAAAATTGTGAAAAATAATCAGCAGCCGGATGTGGATAACCCTTTCAAATTTCTCCTGGGGCTCCAAACCA
CCCCACTGGTGTTCTCCTGCTGACAGTGATTTCAATTTTTCTGGGCTGGAGCTCCCTGATGGAGGGGCAGGCC
ACCATCTTTGCTGTTTTGCAACTTAGCCACTTCAGCCTTCAGTCTTTGGAGTGTTCCAAGGAGACCAGGGGTGA
TGTGGACCCTCAGCATAGCACAGCTGCTCTATAAAGATGAGGCCAGACTGCTTTTTTGAGCACTTTCCCAATGCC
ATTCTCTCTACTGGGCAAAACCTCCAACTGGGGTCTCCAGCCACCTCTACAGGTGTGTTTGGGCCAGCAACA
AGTTCATTATACCTCCCTAGGGCAAAGCTTCCAAAGGGAGCGGTAGGCTGCCATCTTTGCTGTTTCACAGGCTT
CACTGATGATAACTCCAGGTACTGGAATCTGAGGCTACTAGAGACTGGAGCGGGCCCTGGGCATACTGCAGCA
GCCCTATGGAAGTGGCCAGACTGTTACCTGGGTTCCTATATCTTCTCACTAGGCAAGTCTTGCAGGC
CTGGGCTCTACCTAACCCCCCTACCAGAACTGTTGAGCCAGTAGCAACTCAGCCACTCCCTGGAGAGAGCCTC
CAGGGGCAACTGAAAGCCTCTCTGCCACTGCTTCTGCAGTGGAAGTGTCTTGTCTACCCTCAGACTGATGAAGGA
GCTAACACCCTTATCTACACCTTCAACAAGCTTTAATTGACCAAAGCCCATCTCTCATGGGTCTACACACTCCC
CACTGCTCATGACAGGGAACCCCTGGATTGGCCCCACAGCAGCAATTCTCCATCCTGATTGCTGATTGCAGTAA
ACAGTTGCTGTATTCTCCAGGGGTGGTGGAACTCTGAGGAGACAAACAAAAGACCCTTGGCTACAACCACTACTA
ATGTCCCTTCTCTTCTGCCTCAAAGTTAGGAAAGAAATATAAACTGAGATTGCCCCAGAGCTGCAGTGGGCA
GCCTAGGAGTGCCAAGCCATGACCTACAGCCAGCACTCAAGGGGGAGAGAAGCACATTTTCAGATCATTGAGAGG
GAACATGGCTGCAACTGTAAAGAAACATAGGGGAGCCACATGACCAAGCAAGAGTCTACCAACTGACCAGTAAGC
CCAAGTGCCACCTACTGGATCACATCCCAAAGCTTCAGCATCAAAAATACCCCTACTAATATACTCCCCTCTGAAA
CCAGAAATGAGAAGTCAGCTTCAAATAAAGACCCTGCACAAAGCCTCAGCCTGGTGAAAACATCCGAAAATAAGT
CTACGGACTGTACTCAATCTACACTGCAATTAAAGGAAAACCCATAGGTGGAAATGAGAAGAAACCAATGCAAGA
ACTCCAGTAACTCAAATGGCCTCTGTGTATATGTCTTCTAACAACCACACCAGTTCTCCAACAAGAGTTCTTA
ACCTGGATGAACTGTCTGGAATTACATAAATATAATTGAGAAATATGGATAGGAAAAAAATCATCAAGACTCAGG
AGAATGGCAAAACCCAATCCAGGAAAATAAGAATAACAGTAAAGTGTACAGGAGCTGAAGGATAAAGTAGCTG
GTATAATAAAAAAGAACCTAACCGATCTGAAAGCGCCGAAGAACACAATACAGAATTCCACAATGCAATCACAA
GTATTAACAGCAGAAAAAAAACCTGAGGAACGAATCTCAGAACTGAAGATTGGTTCTCTAAAAATAAGATGGAC
AAAAAAAAAAAAAAAAAA

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FIGURE 1101

MLVNELNHSKEKECQYEKEKAEREVAVRQLQQKRDDVLNKGSA TKALLDASSRHCTYLENGMQDSRKKLDQMRSQ
FQEIQDQLTATIRCTKEMDGD TQKLEVEHVMMRKIIKKQDDQIERLEKILQHSSIMLQVFES

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FIGURE 1102A

ATGGCGGCGGGCGGGGAATCGCGCCTCGTCGTCGGGATTCCCGGGCGCCAGGGCTACGAGCCCTGAGGCAGGC
GGCGGCGGAGGAGCCCTCAAGGCGAGCAGCGCGCGCGGCTGCCGCGGGACTGCTGCGGGAGGCGGGCAGCGGG
GGCGCGAGCGGGCGGACTGGCGGCGGCGGCGAGCTGCGCAAAGTGGGAGTGTGGAGCTGGACCAGCTGCCTGAG
CAGCCGCTCTTCCTTGCCGCTCACCGCCGGCCTCCTCGACTTCCCGTCCGCGAGCCCGCGGACGCAGCGGGG
AGTGGGACCGGCTTCCAGCCTGTGGCGGTGCCGCCGCCACGGAGCCGCCAGCCGCGCGGCGGCCACCTTACC
GAGTCGGTGGCGGCGCCGACAGCGCGCCTCGAGTCCCGCAGCGGCCGAGCCCGGGGAGAAGCGGGCGCCCGCC
GCCGAGCCGTCTCCTGCAGCGGCCCGCCGGTCTGAGATGGAGAATAAAGAACTCTCAAAGGGTTGCACAAG
ATGGATGATCGTCCAGAGGAACGAATGATCAGGGAGAACTGAAGGCAACCTGTATGCCAGCCTGGAAGCACGAA
TGGTTGAAAGGAGAAATAGGCGAGGGCCTGTGGTGGTAAAACCAATCCCAGTTAAAGGAGATGGATCTGAAATG
AATCACTTAGCAGCTGAGTCTCAGGAGAGGTCCAGGCAAGTGGCGCTTACCAGCTTCAAAGGCCGACGCAGT
CCTTCTCCTGGCAACTCCCCATCAGGTCGCACAGTGAAATCAGAATCTCCAGGAGTAAGGAGAAAAAGAGTTTCC
CCAGTGCCTTTTAGAGTGGCAGAATCACACCACC¹CGAAGAGCCCCTTACCAGATGGCTTCTACCATATAGC
CCTGAGGAAACAAACCGCCGTGTTAAACAAAGTGATGCGGGCCAGACTGTACTTACTGCAGCAGATAGGGCCTAAC
TCTTCTGATTGGAGGAGACAGCCAGACAATAATACCGGGTGTATTATGGGCCTCAGAACTGCAGCTGTGCA
CGTGGAAACATTCTGTATTCTATCTGCTATTTGTGATGCTCCGGGTGTTTCAACTAGAACCTTACAGCCCAATGTTA
TGGAGAAAACTTTAAAGAATTTTGGAGTTGAGAGTTTGTCCAGAAATATCACAGTAAGCGTAGCTCAAGGATC
AAAGCTCCATCTCGTAACACCATCCAGAAGTTTGTTCACGCGATGTCAAATCTCATACTGTGATCATCTAGT
ACTTCTACATCTAGTTCAAGAAACAGCATAAAGGATGAAGAGGAACAGATGTGCTCTATTTGCTTGTGGGCATG
CTTGATGAAGAAAGTCTTACAGTGTGTGAAGACGGCTGCAGGAACAAGCTGCACCACCACTGCATGTCAATTTGG
GCAGAAGAGTGTAGAAGAAATAGAGAACCTTTAATATGTCCCTTTGTAGATCTAAGTGGAGATCTCATGATTTT
TACAGCCACGAGTTGTCAAGTCTGTGGATTCCCCTTCTTCCCTCAGAGCTGCACAGCAGCAAACCGTACAGCAG
CAGCCTTTGGCTGGATCACGAAGGAATCAAGAGAGCAATTTTAACCTTACTCATTATGGAACCTCAGCAAATCCCT
CCTGCTTACAAAGATTTAGCTGAGCCATGGATTGAGGTGTTTGAATGGAACCTCGTTGGCTGCTTATTTTCTAGA
AACTGGAATGTGAGAGAGATGGCCCTCAGGCGTCTTTCCCATGATGTGAGTGGGGCCCTGCTGTTGGCAAATGGG
GAGAGCACTGGAATTTCTGGGGGAGCAGTGAAGCAGCCGAGTGGGGGAGCCACCAGTGGGTCTTCCCAGACC
AGTATCTCAGGAGATGTGGTGGAGGCATGTGCGAGCGTTCTGTCAATGGTCTGTGCTGACCTGTCTACAAAGTG
TAGCTTGCTGCTTTAAACATTGAGAGCCATGCTGGTATATACTCCTTGCCACAGTTTAGCGGAAAGAATCAAA
CTTCAGAGACTTCTCCAGCCAGTTGTAGACACCATCCTAGTCAAATGTGCAGATGCCAATAGCCGCACAAGTCAG
CTGTCCATATCAACACTGTTGGAACGTGTGCAAGGCCAAGCAGGAGAGTTGGCAGTTGGCAGAGAAATACTAAAA
GCTGGATCCATTGGTATTGGTGGTGTGATTATGTCTTAAATTGTATTCTTGGAAACCAAACCTGAATCAAACAAT
TGGCAAGAACCTCTTGGCCGCTTTGTCTTATAGATAGACTGTTGTTGGAATTTCTGCTGAATTTTATCCTCAT
ATTGTGCTAGTACTGATGTTTCAAGCTGAGCCTGTTGAAATCAGGTATAAGAAGCTGCTGTCCCTCTTAACCTTT
GCTTTGCAGTCCATTAATAATTCCCACCTCAATGGTTGGCAAACCTTCCAGAAGGATCTACTTGAGTTCTGCAAGA
ATGGTTACTACAGTACCCCATGTGTTTTCAAACCTGTTAGAAATGCTGAGTGTTCAGTTCCACTCACTTCACC
AGGATGCGTCGCGCTTTGATGGCTATTGCAGATGAGGTGGAATTTGCCGAAGCCATCCAGTTGGGCGTAGAAGAC
ACTTTGGATGGTCAACAGGACAGCTTCTTGCGAGGCATCTGTTCCCAACAACCTATCTGGAACCCACAGAGAACAGT
TCCCCTGAGTGCACAATCCATTTAGAGAAAACCTGGAAGGATTATGTGCTACAAAATTGAGTGCCAGTTTCAGAG
GACATTTCTGAGAGACTGGCCAGCATTTAGTAGGACCTTCTAGTTCAACTACTAATACTACTACTACAACAACAGA
GCAACCAAAGCCAATGGTTCAAACAAAAGGCAGACCCACAGTCAGTGTGAACTCCTCTCCTTTATCTCATCA
TTCCCAATTAATGTTTCCAGCCTTGTCACCCCTTCTTCTTCTACCCCATCTGTACCAGCTGGCACTGCAACAGA
TGCTCTAAGCATAGACTTCAGGGATTCACTCCCTGCAGAATACCTTCTGCATCTCCTCAAACACAGCGCAAGTT
TTCTCTACAATTCACAGAACTGTCTGAAAACAAAGACTCAGATAAATTTCCCAGTCTTTACTCAGTCAAG
ACCTTGCCCTCCAGTAACATACACAGGCCAAAGCCATCTCGACCTACCCAGGTAATACAAGTAAACAGGGAGA
TCCCTCAAAAAATAGCATGACACTTGATCTGAACAGTAGTTCCAAATGTGATGACAGCTTTGGCTGTAGCAGCAA
TAGTAGTAATGCTGTTATACCCAGTGACGAGACAGTGTTCACCCAGTAGAGGAGAAATGCAGATTAGATGTCAA
TACAGAGCTCAACTCCAGTATTGAGGACCTTCTTGAAGCATCTATGCCTTCAAGTGATACAACAGTAACCTTTAA
GTCAGAAGTTGCTGCTCTCTCTGAAAAGGCTGAAAATGATGATACCTACAAAGATGATGTGAATCATAAATCA
AAAGTGCAAAGAGAAGATGGAAGCTGAAGAAGAAGAAGCTTTAGCAATTGCCATGGCAATGTGAGCGTCTCAGGA

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FIGURE 1102B

TGCCCTCCCCATAGTTCCTCAGCTGCAGGTTGAAATGGAGAAGATATCATCATTATTCAACAGGATACACCAGA
GACTCTACCAGGACATACCAAAGCAAAACAACCGTATAGAGAAGACACTGAATGGCTGAAAGGTCAACAGATAGG
CCTTGGAGCATTCTTCTTTGTTATCAGGCTCAAGATGTGGGAACCTGGAACCTTAATGGCTGTAAACAGGTGAC
TTATGTCAGAAACACATCTTCTGAGCAAGAAGAAGTAGTAGAAGCACTAAGAGAAGAGATAAGAATGATGAGCCA
TCTGAATCATCCAAACATCATTAGGATGTTGGGAGCCACGTGTGAGAAGAGCAATTACAATCTCTTCATTGAATG
GATGGCAGGGGGATCGGTGGCTCATTGCTGAGTAAATATGGAGCCTTCAAAGAATCAGTAGTTATTAACACAC
TGAACAGTTACTCCGTGGCCTTTCGTATCTCCATGAAAACCAATCATTACAGAGATGTCAAAGGTGCCAATTT
GCTAATTGACAGCACTGGTCAGAGACTAAGAATTGCAGATTTTGGAGCTGCAGCCAGGTTGGCATCAAAGGAAC
TGGTGCAGGAGAGTTTCAGGGACAATTACTGGGGACAATTGCATTTATGGCACCTGAGGTACTAAGAGGTCAACA
GTATGGAAGGAGCTGTGATGTATGGAGTGTGGCTGTGCTATTATAGAAATGGCTGTGCAAAACCACCATGGAA
TGCAGAAAAACACTCCAATCATCTTGCTTTGATATTTAAGATTGCTAGTGCAACTACTGCTCCATCGATCCCTTC
ACATTTGTCTCCTGGTTTACGAGATGTGGCTCTTCGTGTTTTAGAACTTCAACCTCAGGACAGACCTCCATCAAG
AGAGCTACTGAAGCATCCAGTCTTTCGTACTACATGGTAGCCAATTATGCAGATCAACTACAGTAGAAAACAGGAT
GCTCAACAAGAGAAAAAACTTGTGGGAACCACATTGATATTCTACTGGCCATGATGCCACTGAACAGCTATG
AACGAGGCCAGTGGGGAACCCTTACCTAAGTATGTGATTGACAAATCATGATCTGTACCTAAGCTCAGTATGCAA
AAGCCCAACTAGTGCAGAACTGTAACTGTGCCTTTCAAAGAAGTGGCCCTAGGTGAACAGGAAAAACAATGAA
GTTTGCATGACTAAATTGCAGAAGCATAATTTTATTTTTTGGAGCACTTTTTCAGCAATATTAGCGGTGAGGG
GCTCAGGATCTATTTAATATTTCAATTATTCTTCCATTTTATATAGTGATCACAAGCAGGGGGTCTGCAATTC
CGTTCAAATTTTTTGTCACTGGCTATAAAATCAGTATCTGCCTCTTTAGGTGAGAGTATGCTATGAGTAGCAAT
ACATACATATATTTTTAAAGTTGATACCTCTTTATGACCCACAGTTGACCTTTATTTCTTAAATACCAGGGCA
GTTGTGGCTCATTGTGCATTTTACTGTTGGCCCAATCATTTCGTTTTTGGAAATTATGGTTTTGTATTTTCATGT
TTATTTACATTCATTTTTGTTTTATTGAGGGAAGCTGATCTTTTTTCAAACCAGAAAAAAAATGAAGTAGAT
ATGAAGTAGAGTTCATTAAATATCTTGCTATTGTGAGAGTTTTTAAATATAGACTTAATTTTGTTTTTTAAAT
TGGAATACAATAAAGTACTACCTACATTTGAGTCAGTCACCACCTTATTGTGCAGGTTAAGTACAAGTTAACTA
AAAAATAAAGTGTCTCTCTGGTGAACCTCACAACCAAGATCAAGATTACCTTAAAAATTTATTTGAATTTTTTGA
TGTTTTGGTTGTCAAACCTGTAGGAACTTCACAACATTTAAGTCTTACTCTGTATGTAACAATCCATCATTACC
TTCACTACTGGTAAATAACATAGAGCTGCCATTTTCTTTTACCATGCATCATCTCTTTACAGTAGGCCTGGCAGA
TCATTTTTTAAAAAGATTATTCAACTACCAATCAGTAATGTTTTTAAACAGTACATTTGCTTTGAACTTGGAAAA
TGTGTTTCAGAAAGAAAAATGGAATTGAATTTCAATTATACACTAATTCCTTGGATTTTGCACAGTTACCTAACGG
TTTTAGTCTGGAGTTAAATTCAGATGCATGGAATCCTGAAGGAAATGGTAGCTTTTTAATCTTTTTGTGTGTGT
GTGAGTCTTTTTAAATCAAGTACTGATTAACATTTAAGTACAACCTTGAGATTTTAGTTTTAACTCTTCAGAAGCC
AGTGTGAAATAGAATTGGTTATTCTCAAAGACTCAGGATAAACTAAATAAGCTATATATAGAGTACATTTAAAT
GTACAACACAAATTGGAAGTAAATAAGTTACAAGATAAGTTTACAGGGATATATTGCTTACAATTTTTAAAGG
CAGTTTGTTTTTTATGTGAATATGTTTCTTAGTGAATTTTACATTCCTTTGTTTTGGAAGATTGGCGATATTTG
AAGAGTTAAAAATAGTACAGAAATGTGAAGTTTGGTATCTCTAAATGTGTTGTACTTGACTTTCTTTTTATTTT
TTTTTATTTTTTTTGACTACTTAGAATTTTACAATTTCTAATAAGATTGTTTCCAAGTCTCTCATGTGCAAGCTT
TAAAGGATGCACCTTGCCATTTTATGTACTGGAAGATCATTGGTCAGATGAATACTGTGTCTGACAAAAATGTA
AACTGTATAAACTGAGGAACCTCAGCTAATCAGTATTACTTTGTAGATCACCATGCCCACCACATTTCAAACCTCA
AACTATCTGTAGATTTCAAATCCATTGTGTTTGAGTTTGTGTCAGTTCCTCAGCTTGCTGGTAAATTGTGGTG
TTTTGTTTTTTGTTTTGTTTTCAATGCAAATGTGATGTAATATTCTTATTTCTTTGGATCAAAGCTGGACTGGA
AATTGTATCGTGTAATTATTTTTGTGTCTTAATGTTATTTGGTACTCAAGTTGTAATAACGCTCTACTACTGTT
TATTCAGTTTCTACTACCTCAGGTGTCCTATAGATTTTCTTCTACCAAAGTTCACTTTCACAATGAAATTATA
TTTGTCTGTGACTATGATTCCCTAAGATTTCCAGGGCTAAGGGCTAACTTCTATTAGCACCTTACTGTGTAAGC
AAATGTTACAAAAAAGACAAGAAAAAATCTCTGGGTTAAGAAAATTTGGCTTAAATGTATCCTTTGTATTTT
AAATATATTGAGATATTTAATTAAAAATTTTACCCATTGAACCGATTTTATAGTATTGTACCTATTTTGGTG
TTTTTGTCTTTATAGTAAATAAAAGTTTTTGAACAAAAAAAAGTCGACGCGG

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FIGURE 1103

MAAAAGNRASSSGFPGARATSPEAGGGGALKASSARAAAAGLLREAGSGGRERADWRRRQLRKVRSVELDQLPE
QPLFLAASPPASSTSPSPEPADAAGSGTGFPVAVPPPHGAASRRGAHLTESVAAPDSGASSPAAEPGEKRAPA
AEPSPAAAPAGREMENKETLKGLHKMDDRPEERMIREKLKATCMPAWKHEWLERRNRGPVVVKPIPVKGDGSEM
NHLAESPGEVQASAAASPASKGRRSPSPGNPSGRTVKSES PGVRRKRVSPVPFQSGRITPFRRAPSPDGFSPYS
PEETNRRVNVKVMRARLYLLQQIGPNSFLIGGDS PDNKYRVFIGPQNCSCARGTFCIHLLFVMLRVFQLEPSDPM
WRKTLKNFEVESLFQKYHSKRSSRIKAPSRNTIQKFVSRMSNSHTLSSSSTSTSSSENSIKDEEEQMCPICLLGM
LDEESLTVCEGDCRNKLHHHCMSIWAEECRRNREPLICPLCRSKWRSHDFYSHELSSPVDSPSSLRAAQQQTVQQ
QPLAGSRNQESNFNLTHTYGTQQIPPAYKD LAEPW IQVFGMELVGCLFSRNWNVREMA LRRLSHDVS GALLLANG
ESTGNSGGSSGSSPSGGATSGSSQTSISGDVVEACCSVLMSVCADPVYKVYVAALKTLRAMLVYTPCHSLAERIK
LQRLLPVVD TILVKCADANSRTSQLSISTLLELCKGQAGELAVGREILKAGSIGIGGV DYLNCILGNQTESNN
WQELLGRCLIDRLLEFFPAEFYPHIVSTDVSAEPVEIRYKLLSLLTFALQSINN SHSMVGKLSRRIYLSSAR
MVTTPHVFSKLLLEMLSVSSSTHFTMRRLMAIADEVEIAEAIQLGVEDTLDGQQDSF LQASVPNNYLETTENS
SPECTIHLEKTGKGLCATKLSASSEDISERLASISVGPSSSTTNYYYNNRATKANGSNKRQTPQSVFELL SFISS
FPINVSILVNPFFFYPICTSWHCNRCLKHRLQGFIPCRIPSASPQTQRKFSIQFHRNCPENKDSDKLSPVFTQSR
PLPSSNIHRPKPSRPTPGNTSKQGDPSKNSMTLDLNSSSKCDDSGCSSNSSNAVIPSDETVFTPVEEKCRLDVN
TELNSSIEDLLEASMPSSDTTVTFKSEVAVLSPEKAENDDTYKDDVNHNQCKEKEMEAE EEEALAIAMAMSASQD
ALPIVPQLQVENGEDI IIIQQDTPETLP GHTKAKQPYREDTEWLKGQQIGLGA FSSCYQAQDVGTGTLMAVKQVT
YVRNTSSEQEEVVEALREEIRMMSHLNHPNIIRMLGATCEKSNNLFIEWMAGGSVAHLLSKYGAFKESV VINYT
EQLLRGLSYLHENQIIHRDVKGANLLIDSTGQRLRIADFGAAARLASKGTGAGEFQ GQLLGTIAFMAPEVLRGQQ
YGRSCDVWSVGCAIIEMACAKPPWNAEKHSNHLALIFKIASATTAPSIPSHLSPGLRDVALRCLQLPQDRPPSR
ELLKHPVFRTTW

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FIGURE 1104A

GTTTAGTGTTAACCTCAGCTACACTGAAGGAATAGACCTTAGTCCTCACAAGTATAAGTTCTAGCTTGGAAAGCCT
GGGTTCTGCAGTAGCTGTGGAACCTTAAGCCTCTGAGCTCAGGGATGCAGAGGCATTGAGTTACTACCAAGGGCCT
GATCTTTTCTTTAGCAGGCATCTGTGTTAATTGTTTCAAAGGTGGTGATCAGTTTTACAGCCTATTATAAAGGA
GATTTTTGCCTACTATAAACTAATCCCCCTGAAAGAGTGAGTAAACATAACTTTTTGTGTGTGACTTCCACAA
GGGAAGGAGTTGGCACCTTACACTCTGACTTTTGATTGAGTCGTCCTTCTTGAGCCATTTTTGCAGGGGATCAGTT
TGGAGTGGGCGTTAACAATGTTATTCTTTTTTCTTCTCCAGAACACCTTCCACCATGACCACCTCAGCAAGTTC
CCACTTAAATAAAGGCATCAAGCAGGTGTACATGTCCCTGCCTCAGGGTGAGAAAGTCCAGGCCATGTATATCTG
GATCGATGGTACTGGAGAAGGACTGCGCTGCAAGACCCGGACCCTGGACAGTGAGCCCAAGTGTGTGGAAGAGTT
GCCTGAGTGGAAATTTTCGATGGCTCTAGTACTTTACAGTCTGAGGGTTCCAACAGTGACATGTATCTCGTGCCTGC
TGCCATGTTTCGGGACCCCTTCCGTAAGGACCCCTAACAAGCTGGTGTATGTGAAGTTTTCAAGTACAATCGAAG
GCCTGCAGGTGTGTTATAGCACAGCTATGGATAACCCCTCCTCAATCTGTGAATGCTGTGAAGGGGAGGGAGAAGA
CATTCTGAAATCAGCATTGGGAAGACTAGGCAATTTACAGCACTATTTAAGAATCTGAGTGATTCTTTTCCCTGA
ACTTCTGCTTTGAGGAAGAGATAATATGGCCCATCTTCTATGGTCTTCTCTGTGTGGTTGCATAAAATAGCATTG
GATTTGTCCAGATCTGTTTGGCGGTCTTGGAGTCCCCAGTAACAGCCTTCTGCCTGGAATGTAGGCCAGGACAA
ATGTAAACCAATGGACAAATGTTTCTCAAAAATTATAGAATGGCTCCAAGTGCCTGAGAAATGAAGAATAAATCT
GACAACCAAGACAGCTGTCTTGTGAATAGAGGGTTAAGTGCCTGGCATTGGTGCTTGGGAGGTGGCCAGAATG
CAGATAAGGTGAAAGTTGCCCTGTCTAAATCCACTCCCATGTGACTTGGTTGTAAGTGAAGTTAGTTAAACTG
AAGTCTTTCAGAGTCTTCTACAGATGTACAATTAACAGCTTCTCTCATTTTTCTGACTCGGTGATCCCAAGAAG
GCCTATACGGGTGAGTTCATACCATAGTGACACCTCAGTTGTATAGAATCCAAGGACTATTCTCCCATCAGCA
TCGGTATTGAGCATCTATGCTTTAGATCCCTGATGGCGTATTATTGACTCTTTTTCTAGAGACCAATTTGAGG
CACACCTGTAAACGGATAATGGACATGGTGAGCAACCAGCACCCCTGGTTTGGCATGGAGCAGGAGTATACCCCTC
ATGGGGACAGATGGGCACCCCTTGGTTGGCCTTCCAACGGCTTCCAGGGCCCCAGGGTAAGTCTCCTTGGGTT
AGAGGTGAAATCCAGAAGTGTCTAACTGTGAGGAATGCCCTTCCAGGGATGGGAATGACTTTCAGAATCA
AGAAGCAAAATAATACAGTAAAGGCGAAACAGCCCTCACATCACCAGTCCAAAATGGATATGAATATATAAA
GTAAGGTTTTAGGGGGAACGTTTGGCCCCACTGAAGCTGTGGTGAAGAGGAACCTCCCTATTGCCCTCCCCTGC
CCCGCACCTGCAGATGAAGGCAAGGATAGTGATTCAAGAGGGCAAGGCTTAAGGGCCTTCTGATCTCTGACTTTG
GGATTCTCTGGATTCTTGACTCTTAGTGTTTTGTCTGATGCTTCTGTAGGTCCATATTACTGTGGTGTGGGAG
CAGACAGAGCCTATGGCAGGGACATCGTGGAGGCCATTACCGGGCCTGCTTGTATGCTGGAGTCAAGATTGCGG
GGACTAATGCCGAGGTGATGCTGCCCAGGTAAAGTATAGCTCCAATCCATCAATGAAGAAGGGTAGGTAGGTGTA
CATAGGACTTTTGTAGTAAGGGCTGCTGATACCACTCACTAACCCTAAGAACGGGTGGAGTACAG
GTGAGAAGAGAACAGGTTTAGGAGATTCTGAGTTGGAGTGAGCAGTTAGCTTTGTTTTAATGGCCAAGCTTCTCG
TTTCTAGTGGGAATTTAGATTGGACCTTGTGAAGGAATCAGCATGGGAGATCATCTCTGGGTGGCCGTTTCAT
CTTGATCGTGTGTGTAAGACTTTGGAGTGATGCAACCTTTGATCCTAAGCCCATTCCTGGGAATGGAATGG
TGCAGGCTGCCATACCAACTTCAGCACCAAGGCCATGCGGGAGGAGAATGGTCTGAAGTGAGTACCTTCTGCTGG
GGCCATCTTTAATCTCTGTGGCAGAAAACCTTGGGAGGAGACTTAGCAATCTCTCAGCAAAAGTCTCCTTTGCAGG
ATGACTTGCAAATATTTGCCAAAGATGAGTAACTTGACTTCTCAGTCTGGACGTACTTTAGGTGTTGACACTTG
CCTTCACATTCTCTCAITTTGTTCCATTTGAAAAATACCAAATAATACTTCTGATTACAGTGATAAATATTTG
TTATAATTTATATAATATATATTAGTCATATATCATTATATAAATATATATCGATATATATATTTGTGACATATG
TCATGGTGACAGGGAAAAGTTGACAAATTCATGCATTTGAAAATCTTTTAGAACTAAATAGTAACAATACAGGC
ATGTGGATAAGCTTAATGCTTATGAGGGGGAGAAAGTTCAAATGATTAGTCTTTTCAACAAACAGTAACCTTGT
ACTGCTTGTGCGGCACTGTTCTCACCCTGAGACACACAGGTAAGAAGATGCAGCCACTGCCCTCATGAAGTATT
TGTTCTACTGGTATCATATTTTGGTGCACTTCATTCTTGGCTCCATACCTGGAGACAAGGTTGGACTGCCATCTT
TTCTGTTTACTCTAGGTACATCGAGGAGGCCATTGAGAACTAAGCAAGCGGCACCAGTACCACATCCGTGCCTA
TGATCCCAAGGGAGGCCTGGACAATGCCCCAGCTCTAACTGGATTCCATGAAACCTCCAACATCAACGACTTTTC
TGCTGGTGTAGCCAATCGTAGCGCCAGCATACGCATTCCCCGACTGTTGGCCAGGAGAAGAAGGGTTACTTTGA
AGATCGTCCGCCCTCTGCCAATGCGACCCCTTTTCGGTGACAGAAGCCCTCATCCGCACGTGCTTCTCAATGA
AACCGGCGATGAGCCCTTCCAGTACAAAAATTAGTGGACTAGACCTCCAGCTGTTGAGCCCTCCTAGTCTTTC
ATCCCACTCCAACCTTCCCCCTCTCCAGTTGTCCCGATTGTAACCTCAAAGGGTGGAATATCAAGGTGTTTTT

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FIGURE 1104B

TTCATTCCATGTGCCAGTTAATCTTGCTTTCTTTGTTGGCTGGGATAGAGGGGTCAAGTTATTAATTTCTTCA
CACCTACCCTCCTTTTTTCCCTATCACTGAAGCTTTTAGTGCAATTAGTGGGGAGGAGGGTGGGGAGACATAAC
CACTGCTTCCATTTAATGGGGTGACCTGTCCAATAGGCGTAGCTATCCGGACAGAGCACGTTTGCAAGAGGGGG
TCTCTTCTTCCAGGTAGCTGAAAGGGGAAGACCTGACGTACTCTGGTTAGGTTAGGACTTGCCCTCGTGGTGAA
ACTTTTCTTAAAAAGTTATAACCAACTTTTCTATTAAAAGTGGGAATTAGGAGAGAAGGTAGGGGTGGGAATCA
GAGAGAAATGGCTTTGGTCTCTTGCTTGTTGGGACTAGCCTGGCTTGGGACTAAATGCCCTGCTCTGAACACGAAGC
TTAGTATAAACTGATGGATATCCCTACCTTGAAGAAGAAAAGGTTCTTACTGCTTGGTCTTGATTTATCACAC
AAAGCAGAATAGTATTTTTATATTTAAATGTAAAGACAAAAACTATATGTATGGTTTTGTGGATTATGTGTGTT
TTGCTAAAGGAAAAAACCATCCAGGTCACGGGGCACCAAATTTGAGACAAATAGTCGGATTAGAAATAAAGCATC
TCATTTTGAGTAGAGAGCAAGGGAAGTGGTTCTTAGATGGTGATCTGGGATTAGGCCCTCAAGACCCTTTTGGGT
TTCTGCCCTGCCCACCCTCTGGAGAAGGTGGGCACTGGATTAGTTAACAGACAACACGTTACTAGCAGTCACTTG
ATCTCCGTGGCTTTGGTTTAAAGACACACTTGTCCACATAGGTTTAGAGATAAGAGTTGGCTGGTCAACTTGAG
CATGTTACTGACAGAGGGGGTATTGGGGTTATTTTCTGGTAGGAATAGCATGTCACTAAAGCAGGCCCTTTGATA
TTAAATTTTTTAAAAAGCAAAATTATAGAAGTTTAGATTTTAAATCAAATTTGTAGGGTTTCTAGGTAATTTTAC
AGAATTGCTTGTTTGCTTCAACTGTCTCCTACCTCTGCTCTTGGAGGAGATGGGGACAGGGCTGGAGTCAAAACA
CTTGTAATTTTGATCTTGATGTCTTTGTTAAGACTGCTGAAGAATTATTTTTTTCTTTTATAATAAGGAATAA
ACCCACCTTTATTCCTTCATTTCACTACCATTTTCTGGTTCTTGTTGGCTGTGGCAGGCCAGCTGTGGTTT
TCTTTTGCCATGACAACTTCTAATTGCCATGTACAGTATGTTCAAAGTCAAATAACTCCTCATTGTAAACAACT
GTGTAAGTGGCCAAAGCAGCACTTATAAATCAGCCTAACATAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 1105

MTTSASSHLNKGIKQVYMSLPQGEKVQAMYIWIDGTGEGLRCKTRTLDSEPKCVEELPEWNFDGSSTLQSEGSNS
DMYLVPAAMFRDPFRKDPNKLVLCEVFKYNRRPAGVL

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FIGURE 1106

GCCACAGTGTCTCCGGATCCTCCAATCTTCGCTCCTCCAATCTCCGCTCCTCCACCCAGTTCAGGAACCCGCGACC
GCTCGCAGCGCTCTCTTGACCACTATGAGCCTCCTGTCCAGCCGCGCGGCCCGTGTCCCCGGTCTTCGAGCTCC
TTGTGCGCGCTGTTGGTGCTGCTGCTGCTGCTGACGCAGCCAGGGCCCATCGCCAGCGCTGGTCTGCCGCTGCT
GTGTTGAGAGAGCTGCGTTGCGTTTGTGTTTACAGACCACGCAAGGAGTTCATCCCAAAATGATCAGTAATCTGCAA
GTGTTCCGCATAGGCCACAGTGTCTCAAGGTGGAAGTGGTAGCCTCCCTGAAGAACGGGAAGGAAATTTGTCTT
GATCCAGAAGCCCCCTTTCTAAAGAAAGTCATCCAGAAAATTTTGACCGGTGGAAACAAGGAAAACTGATTAAGA
GAAATGAGCAGCATGGAAAAGTTTCCAGTCTTCAGCAGAGAAGTTTCTGGAGGTCTCTGAACCCAGGGAAGA
CAAGAAGGAAAGATTTTGTGTTGTTTGTGTTATTTGTTTTCCAGTAGTTAGCTTTCTTCCTGGATTCTCACTT
TGAAGAGTGTGAGGAAAACCTATGTTTGCCGCTTAAGCTTTCAGCTCAGCTAATGAAGTGTGTTAGCATAGTACCT
CTGCTATTTGCTGTTATTTTATCTGCTATGCTATTGAAGTTTTGGCAATTGACTATAGTGTGAGCCAGGAATCAC
TGGCTGTTAATCTTTCAAAGTGTCTTGAATTGTAGGTGACTATTATATTTCCAAGAAATATTCCTTAAGATATTA
ACTGAGAAGGCTGTGGATTAAATGTGGAATGATGTTTCATAAGAATTCGTTGATGGAAATACACTGTTATCTT
CACTTTTATAAGAAATAGGAAATATTTAATGTTTCTTGGGGAATATGTTAGAGAATTTCTTACTCTTGATTGT
GGGATACTATTTAATTATTTCACTTTAGAAAGCTGAGTGTTTCACACCTTATCTATGTAGAATATATTTCTTTAT
TCAGAATTTCTAAAAGTTTAAGTTCTATGAGGGCTAATATCTTATCTTCCTATAATTTTAGACATCTTTATCTT
TTTAGTATGGCAAACGCCATCATTACTTTTAACTTTGATTTTATATGCTATTTATTAAGTATTTTATTAGGA
GTACCATAATTCTGGTAGCTAAATATATATTTTAGATAGATGAAGAAGCTAGAAAACAGGCAAAATTCCTGACTGC
TAGTTTATATAGAAATGTATTCTTTAGTTTTTAAAGTAAAGGCAAACCTTACAATGACTTGTACTCTGAAAGTT
TTGGAACGTATTCAAACAATTTGAATATAAATTTATCATTAGTTATAAAAAATATATAGCGACATCCTCGAGGC
CCTAGCATTCTCCTTGATAGGGGACCAGAGAGAGCTTGAATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1107

MSLLSSRAARVPGPSSSLCALLVLLLLLTQPGPIASAGPAAAVLRELRCVCLQTTQGVHPKMISNLQVFAIGPQC
SKVEVVASLKNGKEICLDPEAPFLKKVIQKILDGGNKEN

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FIGURE 1108

GTTTTCAATTTCTAAATGCTAATCCTTTTTCTTTCTTCTGTCTATGAGTAGGAACTCTCTCTCCATCCCTGTAGA
ATCTCTTGGACATGTTTATCTCATGCTTATGGGGTCCCCATTTCTTGGAGTGGGATTGACATTGGTGGATTCTGC
TTCAGTGTATCCTTCTTGCCTTCTTATTGTCATGCATGAGTCAACTGTGTGCATCCCATTGTGCTTTCCCCAGGC
CAGTCTCTCATGCCCATTCCATTTCCCCTGCCCTATAGGCCTCCTTTTCATGTACTCTGCCCCAACGGTTTTGGGGG
ACAATCTGGGCCAGAAAGGGGAGCGCAGCTTGGCACCCCTGATGCCAGCATCCTCATCAGCAATGTGTGCAGCAT
CGGGGACCATGTGGCCAGGAGCTTTTTCAGGGCTCAGATTGGGCATGGCAGAAGAGGCAGAGAGGCCTGGGGA
GAAAGCCGGCCAGCACAGCCCCCTGCGAGAGGAGCATGTGACCTGCGTACAGAGCATCTTGGACGAATTCCTTCA
AACGTATGGCAGCCTCATACCCCTCAGCACTGATGAGGTAGTAGAGAAGCTGGAGGACATTTCCAGCAGGAGTT
TTCCACCCCTTCCAGGTGAGGCTTGAAAGCCCTCCTTGAAAGAAGGGCTGGGGCCTTGGGGATGTGGAGAGAATA
CTGCTGCCTTTTCTTCCATAGGGCTGTAGTTGGGGAGGAGGAAGCTAGAGCTGAAGGGGAGGACTCTGCAGGCAG
GTGCCAAATCCTTGGAAGCTGATGGGAGAGTCTTTACCTGGGACCTGAAATGTTCTACCTGAGTAGTCATGTTT
ATCTTTCTGGGGAGTGGGCCTTTCGAGGTCTCAGAAGGACCCATCATGAGCCAGAAAAAGGGAGTCAGTTAG
AATTTGTATTCCAGGGAGTAGTAGGTATTTCTGTGTGCCCCAGCTGCATCATCTTTGTGTGACTCCACCCCTTGG
CCTACTCAGGAAGGGCCTGGTGTTCAGCTGATCCAGTCTTACCAGCGGATGCCAGGCAATGCCATGGTGAGGGG
CTTCCGAGTGGCTTATAAGCGGCACGTGCTGACCATGGATGACTTGGGGACCTTGATGGACAGAACTGGCTCAG
TGACCAGGTGAGAAAGGGTAGAGAAACAGGCCTGAGAGGGGATTACAGGAGCAGGGTGTCTGGGGCCCTCTGCAT
GGGGGAGCCCTGTACCCATGCCGCACCCCTCCATGGCAAGCTGCCTCCCATCTTCTCCCAGGTGATGAACATGTA
TGGAGACCTGGTCATGGACACAGTCCCTGAAAAGGTAGGCCCAACCAGATAGGTCAGTACCCAGAGGAACCTTCTG
CAGTTTTAAGCAGCTTTTTAAGCTCCTTTTCATCTCTTTTCAATTTACACAGAGAGGGTCTCTGTTTCAGGGAGAGA
GGTGGTAGTGGTAGTGATTAATTTCAAATCCGTAATCTTGGGCTCTGGATTATCAGTTGTTTTCCTTTCTGCC
AGTATTTAGTGTTCGCTATGGCCAGCCCCAAGGATTGGGATGGGTTCTATTGTAACATATTGTAAACAAGA
TTT

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FIGURE 1109

MSRNSLSIPVESLGHVYMLMGSPFLGVGLTLVDSASVYPSCGLICMHESTVCIPLCFPQASLSCPFHFPCPIGL
LSCTLPNGFGGQSGPEGERSLAPPDASILISNVCSIGDHVAQELFQGSDLGMAEEAERPGEKAGQHSPREEHVT
CVQSILDEFLQTYGSLIPLSTDEVVEKLEDIFQQEFSTPSR

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FIGURE 1110

CCCACGCGTCCGCGGACGCGTGGGCGGACGCGTGGGCGGGAAGATGGCGGCTGGGTTCAAACCGTGGAACCTCT
GGAGTATTACAGGAGATTTCTGAAAGAGAAGTGCCTGCTGATGGAAGAGAAGTGGTGAATTCAGAACCAAC
TGTCAACATCGGTTCAATTAGTACCGCAGATGGTTCTGCTTTAGTGAAGTTGGGAAATACTACAGTAATCTGTGG
AGTTAAAGCAGAATTTGCAGCACCATCAACAGATGCCCCTGATAAAGGATACGTTGTTCTAATGTGGATCTACC
ACCCCTGTGTTTCATCGAGATTCCGGTCTGGACCTCCTGGAGAAGAGGCCCAAGTGGCTAGCCAGTTTCATTGCAGA
TGTCAATTGAAAATTCACAGATAAATCAGAAAGAGGACTTATGCATTTCTCCAGGAAAGCTTGCTGGGTTCTATA
CTGTGATCTCATTTGCCTCGACTACGATGGAACATTTTGGATGCCTGCACATTGCTTTGCTAGCGGCTTTAAA
AAATGTACAGTTGCCTGAAGTTACTATAAATGAAGAACTGCTTTAGCAGAAGTTAATTTAAAGAAGAAAAGTTA
TTTGAATATTAGAAGTCCAGTTGCACTTCCCTTTGCTGTGTTTGGATGACACTTTGCTTATAGTTGACCCTAC
TGGAGAGGAGGAACATCTGGCAACAGGAACCTTAACAATAGTAATGGATGAGGAAGGCCAACTCTGTTGTCTTCA
CAAACCAGGTGGAAGTGGGCTAACTGGAGCTAACTTCAGGACTGTATGAGCCGAGCAGTTACAAGACACAAAGA
AGTTAAAAAAGTGAAGTAATTAAGAGTATGAAACCCAAATAAACAGCCACCACATTTTCAAACAGAT
TTGTAAAAATTTGATTTGTTAACTGTGCACAAACGTTTTTATACTAAATAAATATCAAACACAAAAA
AAAAAAGGGCGGCCCTTTTTTTTTTTTTTAAATATATACACAAAACTTAGTTACGAAGGCTTCAT
GATATACACCAATTCCAAATAAAACAATCAATGGTCCAGGTGTAGAATGCCAGATTCTTTTATCATCTGCGA
GAAAAGAGAAGCAGGATGAGGAAGAGTGAGGGAAGGCGGGACAGGCTCTGCCCAGAAGAGCTGCCGCTCTTG
GCACAGCAAACGCTCCAGGCTGGGCCCTGTTTATATCTGGAGTCGGAGGGAGACTCCCATCGGCCGCTTTGGGA
CTGAAAGGCCCAAGGCTGTACACAGCTCCCGGAAGAGAGGGAGGCAGTCTTGTGTTTGTGCTGGGAAGGGGTTG
GGTGGAGAAAAAGATTACAGGCACATCACACAGGGGACCAGAAGTGGAGAGAAGACAGAGAGTTCTGCCGAGGC
CTTGGTCTTCTGTCTTTCCAATCTTGCTTCCCAACTCTCCCTGCTTCTTGGGACCATCGGTAGGGGTGGGA
GCAGCAGTCAACACAGCCCACTGGGAAGGGAGGCACAAGCAGCACTCCAGCTTCCAGTGCTGCCCTCACACTCA
CCTGGACAGGTCAGGGGACACAGGATGAAAGCCATGGCCCAATCTAAGAGCAAGACAAGTGAAGAGTGAAGTACTC
TCACTGTGTACCCAGCATAGGAATAGTGAACCTGCTACAACCTGGAGGCTGCGTTCCCATGACTTCCCTCCTCCG
CTCTCCTTGTCTGGGACTTGCTGGTTCCAGGGGTGCATATAGGGAGGGGGCGGGGGCCACAACCCCCGAGACGGT
GAGGACAGGCTTCCGACCCCCCTGTAAGCCAGATCCAGTGGGATGTGGGAGAGCTGGGCGGTACCTTCCCTCTT
GCCCCGTGGCCCATCACACTCACACTGCACCCTGGGCAAGCAGTTCCTGAACCCCCAAGGGGCTCACAACCTT
TAAAGCTGGAGCTTAAAGCCTCCTGGCTTAGTACAAGCAGGAGAACGCTCACCTTCCACTCCTGCTTGTCTCCT
TTGCTCTACCTGGCTCCCTGCCCCGAGGGAATAATTTACACAGAGTAGGAGACAAATTGGCTGAAAAGCTC
TGACTGTCTTTAACTTATTTTAAACAAAAA

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FIGURE 1111

MAAGFKTVEPLEYYRRFLKENCRPDGRELGEFRTTTTVNIGSISTADGSALVKLGNTTVICGVKAEF AAPSTDAPD
KGYVVPNVDLPPLCSSRFRSGPPGEEAQVASQFIADVIENSQIIQKEDLCISPGKLVWVLYCDLICLDYDGNILD
ACTFALLAALKNVQLPEVTINEETALAEVNLKKKSYLNIRTHPVATSFVAFDDTLLIVDPTGEEHHLATGTLTIV
MDEEGKLCCCLHKPGGSGLTGAKLQDCMSRAVTRHKEVKKLMDEVIKSMKPK

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FIGURE 1112

TCTCTCTCGGCGTTTCCGCTGTCAGGGCCTGCGGTGTGACTCGCGGGCTCAGCTGGTCCGGCCGTAGCACCTCCG
CGCCGTGCGCCATGTCGCGGTTTTTACCACCGGTTTCGGACAGCGAGTCCGAGTCGTCTTGTCCGGGGAGGAGCT
CGTCACCAAACCTGTGCGAGGCAACTATGGCAAACAGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAG
AGTTGTCCGAGTGCCAAGGACAAGAGGTTTGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAA
GATTGCTGATGTACCAAGTGCCCTGGAAGAGTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAGCATTGT
GGACAAAGAAGGTGTCCCCCGGTTCTATATCCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGA
AGATAAGGAAGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGAGCACCTTGCCTCAGAAGATCCGAAA
ATACAACCGTGATTTTCGAGTCCCATATCACAAGCTACAAGCAGAACCCCGAGCAGTCTGCGGATGAAGATGCTGA
GAAAAATGAGGAGGATTGAGAAGGCTCTTCAGATGAGGATGAGGATGAGGACGGAGTCAGTGTGCAACTTTCTT
GAAGAAGAAATCAGAAGCTCCTTCTGGGAGAGTCGCAAGTTCTCATAAAGATGGATGATGAAGATGAGGACTC
AGAAGATTCCGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGG
GAAACAAACCGCGCTGGCCTCAAGATTTCTTAAAAAGGCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAA
GAAACGGGAGGACAAAGCTAAGAAGAAGCAGCAGGAAATCCAAGCGCCTGGATGAGGAGGAGGAGGACAATGA
AGGCGGGGAGTGGGAAAGGTTCCGGGGCGGAGTGCCGTTGGTTAAGGAGAAGCCAAAATGTTTGCCAAGGGAAC
TGAGATCACCCATGCTGTTGTTATCAAGAACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAACCTGATCG
TGCTGCCCAGATTGAGCTGCTGCAACTGCTGGTTCAGATTGCAGCGGAAAACAACCTGGGAGAGGGCGTCAATTGT
CAAGATCAAGTTCAATATCATCGCCTCTCTCTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGAT
GTGGGGGAAGTGCCCTGGACTGCATCAATGAGCTGATGGATATCCTGTTTGCAAATCCCAACATTTTGTGGGAGA
GAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGCGTGTCCGTGGCTGCATCCTAACTCT
GGTGAACGAATGGATGAAGAATTTACCAAAATAATGCAAAATACTGACCCTCACTCCCAAGAGTACGTGGAGCA
CTTGAAGGATGAGGCCCAGGTGTGTGCCATCATCGAGCGTGTGCAGCGCTACCTGGAGGAGAAGGGCACTACCGA
GGAGGTCTGCCGCATCTACCTGCTGCGCATCTGCACACCTACTACAAGTTTGATTACAAGGCCCATCAGCGACA
GCTGACCCCGCCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTT
GATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCA
CATCTACCACCATGCTCTGCACTCGCGCTGGTACCAGGCCCCGACCTCATGCTCATGAGCCACTTGCAGGACAA
CATTAGCATGCAGACCCGCCAGTGCAGATCCTTTACAACCGCACCATGGTGCAGCTGGGCATCTGTGCCTTCCG
CCAAGGCCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTTCGAGTGGCCGAGCCAAGGAGCTTCTGGG
CCAGGGCCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGAAGGTGGAGCGGCGCGCTCAGGTCCC
CTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGTCTGCCATGCTCCTGGAGATCCCCTA
CATGGCCGCCCATGAGAGCGATGCCCGCCGACGCATGATCAGCAAGCAGTTCCACCACCAGCTGCGCGTGGGCGA
GCGACAGCCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTTCGCTGCCCTCCAAGGCCATGAAGATGGG
TGACTGGAAGACCTGTACAGTTTTATCATCAATGAGAAGATGAATGGGAAAGTGTGGGACCTTTTCCCCGAGGC
TGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGAGGACCTACCTCTTACCTACAGCAG
TGTCTATGACTCCATCAGCATGGAGACGCTGTGAGCATGTTTGAGCTGGATCTGCCCCTGTGCACTCCATCAT
CAGCAAAATGATCATTAAATGAGGAGCTGATGGCCCTCCCTGGACCAGCCAACACAGACAGTGGTGTGACCCGCAC
TGAGCCCCTGCCCAGCAGAACCTGGCTCTGCAAGTGGCCGAGAAGCTGGGCAGCCTGGTGGAGAACAACGAACG
GGTGTGTTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGAAGGACGGCTACCGCAAAAACGAGGG
CTACATGCGCCGCGGTGGCTACCGCCAGCAGCAGTCTCAGACGGCCTACTGAGCTCTCCACTCTGTTTCCGCGCT
GGGCCATCCAACCTTGAAGTCTAAACACACCTCAGTCACTAAAGGTCTGTTTAAAGTTGTTCTGGTTGATTGC
TTGTTGCCACAAAGGTGTGTTGAGCCCATTCATTTGCTGATTATACTTCTGAGCTGCTACCACATGACAGACACA
AGGCTCAGATGAAGAGGTGAATTGAAC

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FIGURE 1113

MSRFFTTGSDSESESSLGSEELVTKPVGGNYGKQPLLLSEDEEDTKRVVRSADKRFEEELTNLIRTIRNAMKIRD
VTKCLEEFELLGKAYGKAKSIVDKEGVPRFYIRILADLEDYLNELWEDKEGKKKMNNNAKALSTLRQKIRKYNR
DFESHITSYKQNPEQSADEDAEKNEEDSEGSSDEDEDEDGVSAATFLKKKSEAPSGESRKFLKKMDDEDEDESDS
EDDEDWDTGSTSSDSDSEEEEGKQTALASRFLKKAPTDEDKKAEEKKREDKAKKKHDKSKRLDEEEEDNEGGE
WERVRGGVPLVKEKPKMFAKGTEITHAVVIKKLNEILQARGKKGTDRAAQIELLQLLVQIAAENNLGEGVIVKIK
FNIIASLYDYNPNLATYMKPEMWGKCLDCINELMDILFANPNIFVGENILEESENLHNADQPLRVRCILTLVER
MDEEFTKIMQNTDPHSQEYVEHLKDEAQVCAI IERVQRYLEEKGTTEEVCRIYLLRILHTYKFDYKAHQRLTP
PEGSSKSEQDQAENEGEDSAVLMERLCKYIYAKDRTDRIRTCAILCHIYHHLHSRWYQARDLMLMSHLQDNIQH
ADPPVQILYNRTMVQLGICAFRQGLTKDAHNALLDIQSSGRAKELLGQGLLLRSLQERNQEQEKVERRRQVPFHL
HINLELLECVYLVSAMLEIPYMAAHESDARRRMISKQFHHQLRVGERQPLGPPESMREHVVAASKAMKMGDWK
TCHSFIINEKMNGKVWDLFPEADKVRTMLVRKIQEESLRTYLFYSSVYDSISMETLSDMFELDLPTVHSIISKM
IINEELMASLDQPTQTVMHRTEPTAQQNLALQLAEKLGSLVENNERVFDHKQGTGGYFRDQKDGyrkNEGYMR
RGGYRQQSQATAY

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FIGURE 1114A

GAGATATCCTTACCTTACTCAACAGCACCAACAAGGATTGGTGGAAGGTGGAAGTGAACGATCGTCAGGGTTTTG
TGCCGGCTGCGTACGTGAAGAAATTGGACCCCGCCAGTCAGCCTCCCGGGAGAATCTCCTGGAGGAGCAAGGCA
GCATAGCACTGCGGCAGGAGCAGATTGACAATCAATATCATTCTCTGCTGGAAGTGGGTGAGAAGCGTAAAGGCA
TGTTGGAGAAGAGTTGCAAGAAGTTTATGTTGTTCCGTGAAGCGAATGAACTACAGCAATGGATCAATGAGAAGG
AAGCCGCTCTGACAAGTGAGGAGGTGGGAGCAGACTTGGAGCAGGTTGAGGTGCTCCAGAAGAAGTTTGATGACT
TCCAGAAGGACCTGAAGGCCAATGAGTCACGGTTGAAGGACATTAACAAGGTAGCTGAAGACCTGGAGTCTGAAG
GTCTTATGGCAGAGGAGGTGCAGGCTGTGCAACAACAGGAAGTGTATGGCATGATGCCAGGGATGAACTGATT
CCAAGACAGCCTCCCGTGGAAAGTCTGCTCGTCTGATGGTTACACCGTGGCCACCTTTAATTCCATCAAGGAGC
TGAATGAGCGCTGGCGGTCCCTACAGCAGCTGGCCGAGGAACGGAGCCAGCTCTTGGGCAGCGCCCATGAAGTAC
AGAGGTTCCACAGAGATGCTGATGAAACCAAGAATGGATTGAAGAGAAGAATCAAGCTCTAAACACAGACAATT
ATGGACATGATCTCGCCAGTGTCCAGGCCCTGCAACGCAAGCATGAGGGCTTCGAGAGGGACCTTGCGGCTCTCG
GTGACAAGGTAAACTCCCTTGGTGAAACAGCAGAGCGCCTGATCCAGTCCCATCCCGAGTCAGCAGAAGACCTGC
AGGAAAAGTGACAGAGTTAAACCAGGCCCTGGAGCAGCCTGGGGAAACGTGCAGATCAGCGCAAGGCAAAGTTGG
GTGACTCCACGACCTGCAGCGCTTCTTAGCGATTTCGGGACCTCATGTCTTGATCAATGGAATACGGGGGT
TGGTGTCTCAGATGAGCTAGCCAAGGATGTACCGGAGCTGAGGCATTGCTGGAGCGACACCAGGGACACCGGA
CAGAAATCGATGCCAGGGCTGGCACTTTCCAGGCATTTGAGCAGTTTGGACAGCAGCTGTTGGCTCACGGACACT
ATGCCAGCCCTGAGATCAAGCAGAACTTGATATTCTTGACCAGGAGCGTGCAGACCTGGAGAAGGCCTGGGTTT
AGCGCAGGATGATGCTGGATCAGTGCCTTGAAGTGCAGCTGTTCCATCGGGACTGTGAGCAAGCTGAGAAGTGA
TGGCTGCCCGGGAGGCCTTCTGAATACCGAAGACAAAGGAGACTCACTGGACAGCGTAGAGGCTCTGATCAAAA
AACATGAAGACTTTGACAAAGCGATTAACGTCCAGGAAGAGAAGATTGCTGCTCTGCAGGCCTTTGCCGACCAGC
TCATCGCTGCCGGCCATTATGCCAAGGGAGACATTTCTAGCCGGCGCAATGAGGTCTTGGACAGGTGGCGACGTC
TGAAAGCCCAGATGATTGAGAAAAGGTCAAAGCTAGGAGAATCTCAAACCCTCCAACAGTTACGCCGGGATGTGG
ATGAGATTGAGGCTTGATCAGTGAAAATTGCAACAGCGAGTGATGAGTCGTACAAGGATCCCACCAACATCC
AGAGCAAGCACCAGAAGCACCAGGCTTTTGAAGCAGAGCTGCATGCCAACGCTGACCGGATCCGTGGGGTTATCG
ACATGGGCAACTCCCTCATTTGAACGTGGAGCCTGTGCCGGCAGTGAGGATGCTGTCAAGGCCCGCCTGGCTGCCT
TAGCTGACCAGTGGCAGTTCTTGGTGAAAAGTCAGCGGAAAAGAGCCAGAACTGAAAGAAGCCAACAAGCAGC
AGAAGTTCAACACAGGGATCAAGGACTTTGACTTCTGGCTGTCTGAGGTGGAGGCCCTGCTGGCATCCGAAGATT
ATGGCAAAGACCTGGCTTCTGTGAACAACCTGCTGAAAAGCATCAACTGCTGGAAGCAGATATATCTGCCCATG
AGGATCGCCTGAAGGACCTGAACAGCCAGGCAGACAGCCTGATGACCAGCAGTGCCTTCGACACCTCCCAAGTAA
AGGACAAGAGGGACACCATCAACGGGCGCTTCCAGAAGATCAAGAGCATGGCGGCCTCCCGGCAGCCAAGCTGA
ATGAATCCCATCGCCTGCACCAAGTTCTTCCGGGACATGGATGACGAGGAGTCTTGGATCAAGGAGAAGAAGCTGC
TGGTGGGCTCAGAGGACTACGGCCGGGACCTAACTGGCGTGCAGAACCTGAGGAAGAAGCACAAGCGGCTGGAAG
CAGAACTGGCTGCGCATGAGCCGGCTATTACAGGTGTCTGGACACTGGCAAGAAGCTGTCCGATGACAACACCA
TCGGGAAAGAGGAGATCCAGCAGCGGCTGGCGCAGTTTGTGGAGCACTGGAAGAGCTGAAGCAGCTGGCAGCTG
CCCGGGGTCAGCGGCTGGAAGAGTCTTGGGAATATCAGCAGTTTGTAGCCAAATGTGGAAGAGGAAGAAGCCTGGA
TCAATGAGAAAATGACCCTGGTGGCCAGCGAAGATTATGGCGACACTCTTGCCGQCATCCAGGGCTTACTGAAGA
AACATGAAGCTTTTGAGACAGACTTCACCGTCCACAAGGATCGCGTGAATGATGTCTGCACCAATGGACAAGACC
TCATTAAGAAGAACAATCACCATGAGGAGAATCTCTTCAAAGATGAAGGGCCTGAACGGGAAAAGTGTGAGACC
TGGAGAAAGCTGCAGCCCAGAGAAAGGCGAAGCTGGATGAGAACTCGGCCTTCTTCAAGTTCAACTGGAAGGCGG
ACGTGGTGGAGTCTTGGATCGGTGAAAAGGAGAACAGCTTGAAGACAGATGATTATGGCCGAGACCTGTCTTCTG
TGCAGACGCTCCTCACCAAACAGGAACTTTTGACGCTGGGCTGCAGGCCTTCCAGCAGGAAGGCATTGCCAACA
TCACTGCCCTCAAAGATCAGCTTCTCGCCGCCAAACACGTTCACTCCAAGGCCATCGAGGCCCGGCACGCCTCCC
TCATGAAGAGGTGGAGCCAGCTTCTGGCCAATCAGCCGCCCGCAAGAAGAAGCTTCTGGAGGCTCAGAGTCACT
TCCGCAAGGTGGAGGACCTTCTTCTGACCTTCGCCAAAAAGGCTTCTGCCTTCAACAGCTGGTTTGAAAATGCAG
AGGAGGACTTAACAGACCCCGTGCCTGCAACTCCTTGGAAGAAATCAAAGCTTTGCGCGAGGCCCACGACGCCT
TCCGCTCCTCCCTCAGCTCTGCCAGGCTGACTTCAACCAGCTGGCCGAGCTGGACCGCCAGATCAAGAGCTTCC
GCGTAGCCTCCAACCCCTACACCTGGTTTACCATGGAGGCCCTGGAGGAGACCTGGAGGAACCTACAGAAAATCA
TCAAGGAGAGGGAGCTGGAGCTGCAGAAGGAGCAGCGGCGCAGGAGGAGAACGACAAGCTGCGCCAGGAGTTTG

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FIGURE 1114B

CCCAGCACGCCAACGCCTTCCACCAGTGGATCCAAGAGACCAGGACATACCTCCTCGATGGGTCCTGTATGGTGG
AAGAGTCGGGGACCCCTCGAATCCCAGCTTGAAGCTACCAAACGCAAGCACCAGGAAATCCGAGCCATGAGAAGTC
AGCTCAAAAAGATCGAGGACCTGGGGGCCGCCATGGAGGAGGCCCTCATCCTGGACAACAAGTACACGGAGCACA
GCACCGTGGGCCTCGCCCAGCAGTGGGACCAGCTGGACCAGCTGGGCATGCGCATGCAGCACAACCTGGAGCAGC
AGATCCAGGCCAGGAACACAACAGGTGTGACTGAGGAGGCCCTCAAAGAATTGAGCATGATGTTTAAACACTTTG
ACTAGGACAAGTCTGGCAGGCTGAACCATCAGGAGTTCAAATCTTGCCTGCGCTCCCTGGGCTATGACCTGCCCCA
TGGTGGAGGAAGGGGAACCTGACCCTGAGTTCGAGGCAATCCTGGACACGGTGGATCCGAACAGAGATGGCCATG
TCTCCTTGCAAGAATACATGGCTTTCATGATCAGCCGCGAAACTGAGAACGTCAAGTCCAGCGAGGAGATTGAGA
GCGCCTTCCGGGCCCTCTGCTCAGAGGGAAAGCCTTACGTGACCAAGGAGGAGCTCTACCAGAACCTGACCCGGG
AACAAGCCGACTACTGCGTCTCCACATGAAGCCCTACGTGGACGGCAAGGGCCGCGAGCTCCCCACCGCGTTTCG
ACTACGTGGAGTTCACCCGCTCGCTTTTCGTGAAGTGAAGCCACTCCCTGGGTACCCACCCCTCGCTGCTTGCCC
TGCGTCGCTTGCTGCATGTCCGCTCCTCTGTGTGCTCTCACTTTCCACTGTAACCTTAAGCCTGCTTAGCTTGG
AATAAGACTTAGGAGAATATGGTGTCTACTAACCCGCTTCCGGTCCAGTCACAATCATCATGTCACTGTGGGGA
CCCAGATCTGTGTCTTGAAGCAGCTGCCCTCATTCCGACTTCAGAAAAATCGAAGCAGCTGGCTCCTCCCTTGT
CTCTCTCCACCCCTCCCCCAAATCTGTTTTATGTAAAAGACAAATAAATGATGACTTCCCCCAAAAAAAAAA
AAAAAAAC

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FIGURE 1115

GCGACTGTCTCCGCCGAGCCCCGGGGCCAGGTGTCCCGGGCGCGCCACGATGCGGCCGCGGCTGTGGCTCCTCC
TGGCCGCGCAGCTGACAGTTCTCCATGGCAACTCAGTCTCCAGCAGACCCCTGCATACATAAAGGTGCAAACCA
ACAAGATGGTGATGCTGTCTCGGAGGCTAAAATCTCCCTCAGTAACATGCGCATCTACTGGCTGAGACAGCGCC
AGGCACCGAGCAGTGACAGTCACCACGAGTTCCTGGCCCTCTGGGATTCCGCAAAAGGGACTATCCACGGTGAAG
AGGTGGAACAGGAGAAGATAGCTGTGTTTCGGGATGCAAGCCGGTTCATTCTCAATCTCACAAGCGTGAAGCCGG
AAGACAGTGGCATCTACTTCTGCATGATCGTCGGGAGCCCCGAGCTGACCTTCGGAAGGGAAGTCAAGCTGAGTG
TGGTTGATTTCTTCCCACCACTGCCAGCCCACCAAGAAGTCCACCCTCAAGAAGAGAGTGTGCCGTTACCCA
GGCCAGAGACCCAGAAGGGCCCACTTTGTAGCCCCATCACCTTGGCCTGCTGGTGGCTGGCGTCTGGTTCTGC
TGTTTTCCCTGGGAGTGGCCATCCACCTGTGCTGCCGGCGGAGGAGCCCGGCTTCGTTTCATGAAACAATAA
GATTACATCCACTGGAGAAATGTTCCAGAATGGACTACTTGAATATACAGGCCTCAAGGGGAAGGTATATCAGGAA
CCTTTGTCCCCCAATGCCTGCATGGATACTACAGCAATACTACAACCTCACAGAAGCTGCTTAACCCATGGATCC
TGAAAACATAGGCAAGAAGCACAGGTCCTGATGAGTGGATCTTTACTACTTTTACCAGATTCTCCCTCGCTCAG
AGGATCCTCCACACACCCAGCAGAGACTTCTCTGCCACCATCAACCCCCAAGTCATAGGGGGCTCAAGTTCTG
CCCTGGTGAGCTGTGGCCCCATCCTTGTGAACCCCAAAGTGTCCCCCTGTGGAACCAATGTATCCATCTTGA
ATAAATTGCCCCAAATCCTAAAGACCGGGAAAAGGGAACCATTG

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FIGURE 1116

MRPRLWLLAAQLTVLHGNSVLQQTTPAYIKVQTNKMVMLSCEAKISLSNMRIYWLRQRQAPSSDSHHEFLALWDS
AKGTIHGEEVEQEKIAVFRDASRFILNLTSVKPEDSGIYFCMIVGSPELTFGKGTQLSVVDFLPTTAQPTKKSTL
KKRVCRLPRPETQKGPLCSPITLGLLVAGVLVLLVSLGVAIHLCCRRRRARLRFMKQLRLHPLEKCSRMDY

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FIGURE 1117A

GTACTCTCGCGGTATTTGTCCCGACTCTCGCGGGGTTTAGCGTGGCATTGGGAGGCCCGCCTGGGGGAGGAGAC
GGCGTTCCGTTAGCGGCGTTGGGGTTTGGCTGCAGTGGCAGTGCTTTCTCTCTGCTCACGGGGACCCGCTCAGG
CTGGAGGCCAGCCAGCTCTTGCCGCCACCTCGGTTCGCGATGCGGGGCGCAGGACCGGCCGAGTGCCACTTCGACA
TCGAGATCAACCGGGAGCCGGTTGGTCGCATTATGTTTCAGCTCTTCTCAGACATATGTCCAAAAACATGCAAAA
ACTTCCTTTGCTTGTGCTCAGGAGAGAAAGGCCTTGGGAAAACAACTGGGAAGAAGTTATGTTATAAAGGTTCTA
CGTTCCATCGTGTGGTTAAAAACTTTATGATTAGGGTGGGGACTTCAGTGAAGGTAATGAAAAGGTGGAGAAT
CAATTTATGGTGGATATTTTAAAGATGAAAACCTTTATTCTCAAACATGACAGAGCGTTCCCTTTATCAATGGCAA
ATCGAGGGAACATACCAATGGTTCAGTTTTTCATTACCACAAAGCCTGCTCCACACCTGGATGGGGTGCATG
TAGTCTTTGGACTGGTTATTTCTGGTTTTGAAGTAATCGAACAAATTGAAAATCTGAAGACCGATGCTGCAAGCA
GACCATATGCAGATGTGCGAGTTATTGACTGTGGAGTACTTGCCACAAAATCAATAAAGATGTTTTTGAGAAAA
AAAGGAAGAAACCAACTCATTGAGAAGGCTCGGATTCTCTTCCAATTCTCTCTCTTCTTTCAGAAATCATCTTCAG
AAAGTGAACCTGAACATGAGAGAAGCAGAAGGAGGAAACATAAGAGGAGGCCAAAAGTTAAACGTTCTAAAAAGA
GGCGAAAGGAAGCAAGCAGTTGAGAAGGCCAAGGAATAAACATGCAATGAACCCAAAAGGTCACTCTGAGAGGA
GTGATACCAATGAAAAAAGGTCAGTTGATTCCAGTGCTAAAAGGGAAAAACCTGTGGTCCGCCAGAAGAGATTCT
CTCCAGTGCCGTGAGAACCGATTTTACTGAGAAGAGATATGCCTGTGTTACTGCAGAACCTGAACCGAAGATTCT
CTGATGTTGCACCCATTGTAAGTGATCAGAAACCATCTGTATCAAAGTCTGGACGGAAGATTAAAGGAAGGGGCA
CAATTCGTATCACACACCTCCAAGATCAAGATCCTGTTCTGAGTCAGATGATGACAGCAGTGAAACTCCTC
CTCACTGGAAGAGGAAATGCAGAGATTAAGAGCATATAGACCACCTAGTGGAGAAAAATGGAGTAAAGGAGATA
AGTTAAGTGACCCCTGTTCAGCCGATGGGATGAAAGAAGCTTGTCTCAGAGATCCAGATCATGGTCCCTATAATG
GATATTATTAGACCTTAGTACAGCAAGACACTCTGGCCACCATAAAAAACGCAGAAAAAGAAAAAAGGTTAAGC
ATAAAAAAGAAAGGGAAAAAGCAGAAACACTGCAGAAAGACACAAACAAACAAAGAAGAGAAGGATTCTTATACCGT
CTGACATAGAATCCTCAAAATCTTCCACTCGAAGAAATGAAATCCTCTTGTGATAGAGAAAGGAGTTCTCGTTCTT
CCTCATTGTCTATCTCATCACTCATCAAAGAGAGACTGGTCTAAATCTGATAAGGATGTCCAGAGCTCTTTAACC
ATTCCAGCAGAGACTCATACAGATCAAAATCTCACTCACAGTCTTATTCTAGAGGAAGCTCAAGATCAAGGACTG
CGTCAAAGTCTCATCATATTCTCGAAGTAGATCAAAGTCCAGATCTAGTTCCAAGTCTGGGCACCGAAAAGAGAG
CATCAAAATCACCAAGAAAAACAGCTTCTCAGTTAAGTGAAAAATAAACAGTTAAACAGAACCTTTAAGAGCAA
CCATGGCACAAAATGAAATGTAGTAGTACAACAGTTGTAGCAGAAAAATATTCTGTAAATACCACTGAGTGACA
GTCCCCCCCCCTTCAAGATGGAAGCCTGGACAGAAACCTTGAAGCCCTCTTATGAGCGAATTCAGGAAATGAAAG
CTAAACAACCCATTTGCTACCCATCCAAAGCACTTACAGTTTAGCAAATATTAAAGAGACTGGTAGCTCATCAT
CCTACCATAAAAGAGAAAAAAATTCGGAAAGTGATCAGAGCACTTATTCAAAATACAGTGATAGAAGTTCAGAAA
GCTCACCAAGGTCAAGGAGCAGATCTTCTAGGAGTAGATCTTATTCCAGATCATATACAAGATCACGTAGTCTAG
CTAGTTCACATTCAAGGTCTAGGTCTCCATCATCTAGATCTCATTACGAAATAAATACAGTGATCATTACAGT
GTAGTAGATCATCTTCATATACTTCTATTAGCAGTGATGATGGAAGGCGAGCTAAGAGGAGACTTAGATCCAGTG
GGAAAAAAATAGCGTTTTCACATAAAAAGCATAGCAGCAGCTCTGAAAAGACACTTCACAGTAAATATGTCAAAG
GTAGAGACAGGTCTTCATGTGTGAGAAAGTATAGCGAGAGCAGATCATCTTAGATTATTCTTCAGACAGTGAGC
AGTCAAGTGTTCAAGGCCACACAGTCAGCCCAGGAAAAAGAGAAGCAGGGCCAAATGGAAGAACACATAATAAAC
AAGAAAAAACAGAGGTGAAGAAAAATCCAAGTCTGAACGGGAATGCCCTCATTCAAAAAAAGAACTTTGAAAG
AGAATCTTTCTGATCACCTTAGAAATGGCAGTAAGCCCAAAAGGAAGAATTATGCTGGTAGTAAATGGGACTCTG
AGTCAAATTCAGAACGAGATGTCACTAAAAACAGTAAAAATGACTCCCATCCATCCTCTGACAAGGAAGAAGGTG
AGGCCACATCCGATTCTGAATCAGAGGTTAGTGAAATTCACATCAAAGTCAAACCCACAACCAAGTCGTCCACAA
ATACTTCACTGCCTGATGATAATGGTGTCTGGAAATCAAGCAAACAGCGCACATCAACTTCTGACTCTGAGGGGT
CCTGTTCCAATTTCGGAAAAACAATAGGGGAAAGCCACAAAAGCACAACATGGGTCAAAGGAAAAATCTTAAAGAG
AACACACCAAAAAAGTGAAAGAGAAATGAAAGGGAAAAAAGACAAAAAGCATAAGGCTCCAAAACGAAAGCAAG
CATTTCACTGGCAGCCTCCACTAGAATTTGGTGAAGAGGAGGAGGAGGAGATTGATGACAAGCAAGTTACTCAGG
AATCAAAAGAGAAAAAAGTTTCTGAAAACAATGAAACCATAAAAGATAATATTCTAAAAACTGAGAAATCCAGTG
AAGAGGACCTTTCAGGTAAACATGATACAGTGACTGTTTCATCAGATCTTGATCAGTTTACTAAAGATGATAGTA
AACTCAGTATTTCTCCACAGCTTTAAATACTGAGGAAAAATGTGGCCTGTTTACAAAACATTACGACAGTTGAAG
AAAGTGTTCCCAATGGAGTGGAAGATGTGCTTCAAACAGATGACAACATGGAGATCTGCACTCCTGATAGGAGTT

[illegible]

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FIGURE 1118

MGAQDRPQCHFDIEINREPVGRIMFQLFSDICPKTCKNFLCLCSGEKGLGKTTGKKLCYKGSTFHRVVKNFMIQG
GDFSENGNGKGESIYGGYFKDENFILKHDR AFLLSMANRGKHTNGSQFFITTKPAPHLDG VHVVFGLVISGFEVI
EQIENLKTD AASRPYADV RVIDCGVLATKSIKDVFEKKRKKPTHSEGS DSSSNSSSSSESSSESELEHERSRRRK
HKRRPKVKRSKKRRKEASSSEEP RNKHAMNPKGHSERSDTNEKRSVDSSAKREKPVVRPEEIPPV PENRFLLRD
MPVVTAEPEPKIPDVAPIVSDQKPSVSKSGRKIKGRGTIRYHTPPRSRSCSESDDDD SSETPPHWKEEMQRLRAY
RPPSGEKWSKGDKLSDPCSSRWDERSLQSRSRWSYNGYYSDLSTARHSGHHKKRRKEKKVKHKKKGKKQKHCR
HKQTKRRILIPSDIESSKSSTRMKSSCDRERSRSSSLSSHSSKRDWSKSDKDVQSSLTHSSRDSYRSKSHS
QSYSRGSSRSRTASKSSSHSRSRSKSRSSSKSGHRKRASKSPRK TASQLSENKPVKTEPLRATMAQNENVVQP
VAENIPVIPISDSPPPSRWKPGQKPWKPSYERIQEMKAKTTHLLPIQSTYSLANIKETGSSSSYHKREKNSESDQ
STYSKYSDRSESSSPRSR SRSSRSRSYRSYTRSRSLASSHSRSPSSSRSHSRNKYSDHSQC SRSSSYTSISSD
DGRRAKRRRLRSSGKKNSVSHKKHSSSEKTLHSKYVKGRDRSSCVRKYSESRSSLDYSSDSEQSSVQATQSAQEK
EKQGMERTHNKQEKNRGEEKSKSERECPHKKRTLKENLSDHLRNGSKPKRKNYAGSKWDSESNSE RDVTKN SK
ND SHPSSDKEEGEATS DSESEVSEIHIKVKPTTKSSTNTSLPDDNGAWKSSKQRTSTSDSEGSCSNSENNRGK PQ
KHKHGSKENL KREHTKKVKEKLKGKKDKKHKAPKRKQAFHWQPPLEFGEEEEEEIDDKQVTQESKEKKVSENNET
IKDNILKTEKSSEEDLSGKHDTVTVSSDLQFTKDDSKLSISPTALNTEENVACLQNIQHVEESVPNGVEDVLQT
DDNMEICTPDRSSPAKVEETSPLGNARLDPDINIVLKQDMATEHPQAEVVKQESSMSESKVLGEVGKQDSSSAS
LASAGESTGKKEVAEKSQINLIDKKWKPLQGVGNLAAPNAATSSAVEVKVLTTPPEMKPQGLRIEIKSKNKVRPG
SLFDEVKRTARLNRRPRNQESSSDEQTPSRDDDSQSRSPSRSRSKSETKSRHRTRSVSYSHSRSRSRSTSSYRS
RSYSRSRSGWYSRGTRSRSSSYRSYKSHRTSSRSRSRSSSYDPHSRSRSYTYDSYYSRSRSRSRSQRSDSYHR
GRSYNRRSRSCR SYGSDSESDRSYSHHRSPSESSRY S

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FIGURE 1119

GGCTTCTGGGAGCGACCGCTCCGCTCGTCTCGTTGGTTCCGGAGGTCGCTGCGGCGGTGGGAAATGCTGGCGCGC
GCGGCGCGGGGCACTGGGGCCCTTTTGTGAGGGGCTCTCTACTGGCTTCTGGCCGCGCTCCGCGCCGCGCCTCC
TCTGGATTGCCCCGAAACACCGTGGTACTGTTCTGTCGCGCAGCAGGAGGCCTGGGTGGTGGAGCGAATGGGCCGA
TTCCACCGGATCCTGGAGCCTGGTTTGAACATCCTCATCCCTGTGTTAGACCGGATCCGATATGTGCAGAGTCTC
AAGGAAATTGTCATCAACGTGCCTGAGCAGTCGGCTGTGACTCTCGACAATGTAAGTCTGCAATTCGATGGAGTC
CTTTACCTGCGCATCATGGACCCTTACAAGGCAAGCTACGGTGTGAGGACCCTGAGTATGCCGTCACCCAGCTA
GCTCAAACAACCATGAGATCAGAGCTCGGCAAACTCTCTCTGGACAAAGTCTTCCGGGAACGGGAGTCCCTGAAT
GCCAGCATTGTGGATGCCATCAACCAAGCTGCTGACTGCTGGGGTATCCGCTGCCTCCGTTATGAGATCAAGGAT
ATCCATGTGCCACCCCGGGTGAAAGAGTCTATGCAGATGCAGGTGGAGGCAGAGCGGCGGAAACGGGCCACAGTT
CTAGAGTCTGAGGGGACCCGAGAGTCGGCCATCAATGTGGCAGAAGGGAAGAAACAGGCCCAGATCCTGGCCTCC
GAAGCAGAAAAGGCTGAACAGATAAATCAGGCAGCAGGAGAGGCCAGTGCAGTTCTGGCGAAGGCCAAGGCTAAA
GCTGAAGCTATTGGAATCCTGGCTGCAGCTCTGACACAACATAATGGAGATGCAGCAGCTTCACTGACTGTGGCC
GAGCAGTATGTCAGCGGTTCTCCAACTGGCCAAGGACTCCAACACTATCCTACTGCCCTCCAACCCTGGCGAT
GTCACCAGCATGGTGGCTCAGGCCATGGGTGTATATGGAGCCCTCACCAAAGCCCCAGTGCCAGGGACTCCAGAC
TCACTCTCCAGTGGGAGCAGCAGAGATGTCCAGGSTACAGATGCAAGTCTTGATGAGGAACTTGATCGAGTCAAG
ATGAGTTACTGGAGCTGGGCTTGGCCAGGGAGTCTGGGGACAAGGAAGCAGATTTTCCTGATTCTGGCTCTAGCT
TCCCTGCCAAGATTTTGGTTTTTATTTTTTTATTTGAACTTTAGTCGTGTAATAAACTCACCAGTGGCAAACCTG
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1120

MLARAARGTGALLLRGSLASGRAPRRASSGLPRNTVVLFPQQEAWVVERMGRFHRILEPGLNILIPVLDRIRY
VQSLKEIVINVPEQSAVTLDNVTLQIDGVLYLRIMDPYKASYGVEDPEYAVTQLAQTMRSELGKLSLDKVFRRER
ESLNASIVDAINQAADCWGIRCLRYEIKDIHVPPRVKESMQMQVEAERRKRATVLESEGTRESAINVAEGKKQQAQ
ILASEAEKAEQINQAAGEASAVLAKAKAKAEAIRILAAALTQHNGDAAASLTVAEQYVSFAFSKLAKDSNTILLPS
NPGDVTSMVAQAMGVYGALTKAPVPGTPDSLSSGSSRDVQGTASLDEELDRVKMS

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FIGURE 1121

TGTATTCAATGCACTGGATTGGATGGAAAATAAGACATTCTTGGAAAACTCAAGTTTGGTATAGGAGATGGCAA
TTTGCAGTATTACCTGTACAATTGGAGGTGCCAGGTACAGATTCTGAAAAGGGCTCTGGTAACTTCGTTAACGC
CAATGGCAAGCTGCTTCCTGACGTGTGCAGGCGTCCACCCTGACACTTGCTGCTTAGCATCTGTTTTCTTCCT
TCAGATTCTCACTAATATCAACAGCAATGCTGCATTTCTCTCTGCTTTCTTTTTTCAGAAAAGGTGTTTTGTTCT
TTTTCTTCTTATCTTCAATCTTCTGAAGTCCAATAGCTTTAAGCCTGTCCTCAAGCGTCTGTAGGATGAAGTGCA
TATCCTCGCTCTCCAGAGCGCTCCAGCGGATGATGTATGGGTTGTTCAACGACGTCTCCACAACCAGAGGTCTCG
TCTTACGGAGAGATCCCCGCCCGGTGCTTGAGGAGCTGCAGCCATTTTGAAAATCCTTCCAAGAAGCAAAATGA
CAACAGAAAAAATTCATGTTAGCGACAACCTGCATGACTTAAGAATATCTTGACTGTACTCTCTGATTCTTATTTA
TTTATGIATTTATTTTTTGAGACAGAATTTCACTCTTGTTGCCAGGCTGGAGTGCAGTGGCACAAATCTCAGCTC
ACTGCAACCTCCACCTCCTGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCGCCC
GCCACCAAGCCCAGCTAATGTTTCTATTTTTTTTTTAGTAGAGACAGGGTTTCACCATGTTGCCAGGCTGGTCTC
AAACTCCTGACCTCAGGTGATCCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACTGCGCC
CGGCCTGTACTCTGATTCTGGATAAGCTAGAGCAAGCCTGATTATATAAGTCCAATTAGGTGAGCATACGCTTGT
CTTCCTTTTTAAAGATTAAAGTAATTTTATTTTTCCCCATTTTCTTACCEGATTTGAATGCTCTACGAAGGCTCT
TTAAAATACTCAGGACTATGGGTGAGTAGTGTAAATTTTCCCCATTTTTTATATGACTTTGTCTTTATTCTTA
TACAAGCAATATGTGAAAGTTTTAATTATTGCAATCATAGTACAATTCCATTTGTCTATTTTATTATTAATAAT
ATTCTGTTTCTACTTGTTTATAATTAAAAA

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FIGURE 1122A

CGCCCCGGCGCGGGGCCCTGCGGTAGCCTCAGGCCCTCCCTGGACCCGCGCAGAGCCAGTGCAGAATACAGA
AACTGCAGCCATGACCACGCACGTCACCCTGGAAGATGCCCTGTCCAACGTGGACCTGCTTGAAGAGCTTCCCTT
CCCCGACCAGCAGCCATGCATCGAGCCTCCACCTTCTCCATCATGTACCAGGCTAACCTTGACACAAACTTTGA
GGACAGGAATGCATTTGTACGGGCATTGCAAGGTACATTGAGCAGGCTACAGTCCACTCCAGCATGAATGAGAT
GCTGGAGGAAGGACATGAGTATGCGGTCATGCTGTACACCTGGCGCAGCTGTTCCCGGGCCATTCCCCAGGTGAA
ATGCAACGAGCAGCCCACCGAGTAGAGATCTATGAGAAGACAGTAGAGGTGCTGGAGCCGGAGGTCACCAAGCT
CATGAAGTTCATGTATTTTCAGCGCAAGGCCATCGAGCGGTTCTGCAGCGAGGTGAAGCGGCTGTGCCATGCCGA
GCGCAGGAAGGACTTTGTCTCTGAGGCCTACCTCCTGACCCTTGGCAAGTTCATCAACATGTTTGCTGTCTTGA
TGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCCTCTGCCTACAAGAGGGCAGCACAGTTCTTGC GGAA
GATGGCAGATCCCCAGTCTATCCAGGAGTCGCAGAACCTTTCATGTTCTTGGCCAACCACAACAGGATCACCCA
GTGTCTCCACCAGCAACTTGAAGTGATCCAGGCTATGAGGAGCTGCTGGCTGACATTGTCAACATCTGTGTGA
TTACTACGAGAACAAGATGTACCTGACTCCAGTGAGAAACATATGCTCTCAAGGTGATGGGCTTTGGCCTCTA
CCTAATGGATGGAATGTGAGTAACATTTACAACTGGATGCCAAGAAGAGAATTAATCTTAGCAAAATTGATAA
ATTCTTTAAGCAGCTGCAGGTGGTGGCCCTTTTCGGCGACATGCAGATAGAGCTGGCCAGATACATTGAGACCAG
TGCTCACTATGAAGAGAACAAGTCCAAGTGGAGCTGCACCCAGAGCAGCATCAGCCCCAGTACAATATCTGCGA
GCAGATGGTTCAGATCCGGGATGACCACATCCGCTTCATCTCCGAGCTCGCTCGCTACAGCAACAGTGAGGTGGT
GACGGGCTCAGGGCTGGACAGCCAGAAGTCAGACGAGGAGTATCGCGAGCTCTTCGACCTAGCCCTGCGGGGCT
GCAGCTTCTATCCAAGTGGAGCGCCACGTCATGGAGGTGACTCTTGGAAGCTGGTTCATCCACAGACAAGTT
CTGCAACAAGGACTGTCTTGGCACCGCGGAGGAATATGAGAGAGCCACACGCTACAATTACACCAGTGAGGAAAA
ATTTGCCCTTCGTTGAGGTGATCGCCATGATCAAAGGCCTGCAGGTGCTCATGGGCAGGATGGAGAGCGTCTTCAA
CCAGGCCATCAGGAACACCATCTACGCGGCATTGCAGGACTTCGCCCAGGTGACGCTGCGTGAGCCCCCTGCGGCA
GGCGGTACGGAAGAAGAAGATGTCTCTATCAGCGTCTTACAGGCAATTGAAAGACCATCTGTGACTGGGAGGG
AGGGCGAGAGCCCCCTAATGACCCATGCTTGAGAGGGGAGAAGGACCCCAAAGGTGGATTTGATATCAAGGTGCC
CCGGCGTGCTGTGGGGCCATCCAGCACACAGCTGTACATGGTGGGACCATGCTTGAATCACTCATTGCAGACAA
AAGCGGCTCCAAGAAGACCCTGAGGAGCAGCTGGATGGACCCATTGTCTCGCCATAGAGGACTTTCACAAACA
GTCTTCTTCTTTCACACATCTGCTCAACATCAGTGAAGCCCTGCAGCAGTGTGTGACCTCTCCAGCTCTGGT
CCGAGAATTCTTCTGAGTTAACCATGGGCGCAGCAATCCAGTTCCCATCGAGATGTCCATGCCCTGGATTCT
AACGGACCATATCTTGAAACCAAAGAACCTTCCATGATGGAGTATGTCTCTACCTCTGGATCTGTACAACGA
CAGCGCCTACTATGCTCTGACCAAGTTTAAAAAGCAGTTCTCTGACGATGAGATAGAAGCTGAGGTGAACCTGTG
TTTTGATCAGTTTGTCTACAAGCTGGCAGACCAGATCTTTGCTTACTACAAAGCCATGGCTGGCAGTGTCTGTT
GGATAACGTTTTTCGAGCTGAGTGTAAAGATTATGGCGTCATCATTCCGTATCCACCGTCCAATCGCTATGAAAC
ACTGCTGAAGCAGAGACACGTCCAGCTGTTGGGTAGATCAATTGACTTGAACAGACTCATTACCCAGCGCATCTC
TGCCGCCATGTATAAATCCTTGACCAAGCTATCAGCCGCTTTGAGAGTGAGGACCTGACCTCCATTGTGGAGCT
GGAGTGGCTGCTGGAGATTAACCGGCTCACGCATCGGCTGCTCTGTAAGCATATGACGCTGGACAGCTTCGATGC
CATGTTCCGAGAGGCCAATCACAAATGTGTCCGCCCCCTATGGCCGTATCACCTGCATGTCTTCTGGGAAGTGAA
CTTTGACTTTCTCCCCAACTACTGCTACAATGGGTCCACTAACCGTTTTGTGCGGACTGCCATTCTTTTACCCA
AGAACCACAACGAGACAAACCTGCCAACGTCCAGCCTTATTACCTCTATGGATCCAAGCCTCTCAACATTGCCTA
CAGCCACATCTACAGCTCCTACAGGAATTTGTTGGGGCCACCTCATTTCAAGACTATCTGCAGACTCCTGGGTTA
TCAGGGCATCGCTGTGGTCATGGAGGAAGTGTAAAGATTGTGAAGAGCTTGCTCCAAGGAACCATTTCTCCAGTA
TGTGAAAACACTGATAGAGGTGATGCCAAGATATGCCGCTTGCCCCGACATGAGTATGGCTCCCCAGGGATCCT
GGAGTTCTTCCACCACCAGCTGAAGGACATCATTGAGTACGCAGAGCTCAAAACAGACGTGTTCCAGAGCCTGAG
GGAAGTGGGCAATGCCATCCTTCTGCTCTCATAGAGCAAGCTCTGTCTCAGGAGGAGGTCTGCGATTTGCT
CCATGCCGCACCCCTTCCAAAACATCTTGCCTAGAGTCTACATCAAAGAGGGGGAGCGCCTGGAGGTCCGGATGAA
ACGCTTGGAAGCCAAGTATGCCCCGCTCCACCTGGTCCCTCTGATCGAGCGGCTGGGGACCCCTCAGCAAATCGC
CATTGCTCGCGAGGGTGACCTCTGACCAAGGAGCGGCTGTGCTGTGGCCTGTCCATGTTTCGAGGTATCCTGAC
CCGCATTGCGAGCTACCTGCAGGACCCCATCTGGCGGGGCCACCGCCACCAATGGCGTCATGCACGTGATGA
GTGTGTGGAGTTCCACCGGCTGTGGAGCGCCATGCAGTTCTGTGACTGCATCCCTGTGGGAACCAACGAGTTTAC
AGCTGAGCAGTGTTCGGCGATGGCTTGAAGTGGGTTGGTTGTCCATCATTGTCTGCTGGGCCAGCAGCGTCG

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FIGURE 1122B

CTTTGACCTGTTTCGACTTCTGTTACCACCTGCTAAAAGTGCAGAGGCAGGACGGGAAGGATGAAATCATTAAAGAA
TGTGCCCCCTGAAGAAGATGGCCGACCGGATCAGGAAGTATCAGATCTTGAACAATGAGGTTTTTGCCATCCTGAA
CAAATACATGAAGTCCGTGGAGACAGACAGTTCCACTGTGGAGCATGTGCGCTGCTTCCAGCCACCCATCCACCA
GTCCTTGCCACCACCTTGCTAAGCAGAAGATCCTGCAGACCCTTATCTGGAGGAGGAAGAGAAGCAGGAGAGAGA
AAGCCACAGCCAGCCTGCCATAGGATCCAACCTGGACAACGTGTGGGATGGACCTGGAAACAAGCACCTCCCCAAA
CACATCACCACCTCCCTAGGGCGGGGCCTGTGCATGCTCTCCCATGACATCTCCATGCTGGTTTCTCCATAGCATA
AATG

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FIGURE 1123

APARGPAVASGPSGPAAEPVQNTETAAMTHVTLEDALSNVDLLEELPLPDQQPCIEPPSSIMYQANFDTNFE
DRNAFVTGIARYIEQATVHSSMNEMLEEGHEYAVMLYTWRSRRAIPQVKCNEQPNRVEIYEKTVLEVLEPEVTKL
MKFMYFORKAIERFCSEVKRLCHAERRKDFVSEAYLLTLGKFINMFAVLDELKNMKCSVKNDHSAYKRAAQFLRK
MADPQSIQESQNLMSFLANHNRTQCLHQQLEVIPGYEELLADIVNICVDYYENKMYLTPSEKHMLLKVMGFGLY
LMDGNVSNYKLDADKKRINLSKIDKFFKQLQVVPLFGDMQIELARYIETSAHYEENKSKWTCTQSSISPQYNICE
QMVQIRDDHIRFISELARYSNSEVVTGSGLDSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKLVHPTDKF
CNKDCPGTAEEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAAQDFAQVTLREPLRQ
AVRKKKNVLISVLQAIKRTICDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAVGPSSTQLYMVRTMLES LIADK
SGSKKTLRSSLDGPVLAIEDFHKQSFFFTHLNISEALQCCDLSQLWFRFFLELTMGRRIOQFPIEMSMPWIL
TDHILETKEPSMMEYVLYPLDLYNDSAYYALTKFKKQFLYDEIEAEVNLCFDQFVYKLADQIFAYYKAMAGSVLL
DKRFRAECKNYGVIIIPPFSNRYETLLKQRHVQLLGRSIDLNRLITQRISAAMYKSLDQAISRFESDLTSIVEL
EWLLEINRLTHRLCKHMTLDSFDAMFREANHNVSAPYGRITLHVFWELNFDLFPNYCYNGSTNRFVRTAIPFTQ
EPQRDKPANVPYYLYGSKPLNIAYSHIYSSYRNFGPPHFKTICRLLGYQGIADVMEELLKIVKSLLQGTILQY
VKTLIEVMPKICRLPRHEYGSPGILEFFHHQLKDIIEYAEKTDVFSQSLREVGNAIFCLLIEQALSQEEVCDLL
HAAPFQNILPRVYIKEGERLEVRMKRLEAKYAPLHLVPLIERLGTPQQAIAAREGDLLTKERLCCGLSMFEVILT
RIRSYLQDP IWRGPPPTNGVMHVDECVEFHLWSAMQFVYCIPVGTNEFTAEQCFGDGLNWWGCSIIVLLGQQR
FDLFDLCYHLLKVQRQDGKDEIIKNVPLKKMADRIRKYQILNNEVFALNKMKSVDTSSTVEHVRCFQPPIHQ
SLATTC

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FIGURE 1124

GCTGTGCAACCTCGGCGCCATGCGCAACCTCTATGCGATGCACCGGCGGCTGCAGCGGCACCCGCGCTCCTGCAC
CAGGGACTGTGCCGAGCCGCGCGCGGACGGGAGGGAAGCGTCCCCTCAGCCCCTGGAGGAGCTGGATCACCTCCT
GCTGCTGGCGCTGATGACCGTGCTCTTCACTATGTGTTCTCTGCCCGTAATTTATCGCGCTTACTATGGAGCATT
TAAGGATGTCAAGGAGAAAAACAGGACCTCTGAAGAAGCAGAAGACCTCCGAGCCTTGGGATTCTATCTGTGAT
TTCAATTGTGGACCCTTGGATTTTATCATTTCAGATCTCCAGTATTCGGATATTTTTTCACAAGATTTTCAT
TAGACCTCTTAGGTACAGGAGCCGGTGCAGCAATCCACTAACATGGAATCCAGTCTGTGACAGTGTTTTCACT
CTGTGGTAAGCTGAGGAATATGTCACATTTTCAGTCAAAGAACCA

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FIGURE 1125

LCNLGAMRNLYAMHRRRLQRHPRSCTRDCAEPRADGREASPOPLEELDHLALLALMTVLFTMCSLPVIYRAYYGAF
KDVKEKNRTSEEAEDLRALRFLSVISIVDPWIFIIFRSPVFRIFFKIFIRPLRYRSRCSNSTNMESL

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FIGURE 1126

CTTATTTTCAACTCCCGAGTGGCTAGACAGGAAAAGAAAGAAATGATGTGAGGAAAGTTGGGAAGCTCTGCACA
GTGAICCCCTGAGAGCCCTGGCACCACCTTTAGGAGACGTGGTAGGTCACTCTGTACATGTTCTTCTCAGCAAGGG
GGGTTTTCCCAAAAGGGACACAAGAAGAAATCTTACTCAGTGGAGTAAATGGAAAGAAGAGGGAGCATGTCTGTC
TGGTTCCCTTCTATTTTCTCCTTTCCTCAGAGTCAAGTTTACCCACAGGGAGTTCACGCTTCCATGTTGCCTCA
TCCAGCCCTTCAGGAAGCCAGAGTCTGTGCTCCAGTGTGGCATTTCAGCCAACCTAGAAATGAAGGGTGACTTAG
CACAGAGAGGTTCAACAAGTGGGGCATGCAGGCCACTGATCTCTGCAAGGGCAGCAGTGCCTGGGGTCTCTGGGA
TACAGGCAGTGCCCTCGGAAAGAAGGGCAATTGAAGACAGTTGAGAAGGTGAACAAAGTTTACATCTAACAAATT
TTAAAGTTTTATTATTTTTATTATTTTATATTCTTGGGGTCTCACTATTTGCCCAGGCTGGAGTGCAGCAGCTATT
TGCAGGCTGAATCCCACTACTGATCAGTACTGGAGTTTTATTTTATTTAATTAACCTATTTATTTTGAACAGAG
TCTTGCTCTATTGCTCAGGCTGGAGTGCAGTGTGCGATCTCGGCTCACTGCAGTCTCGACCTCCAGGCTCAAT
CGATCCTGCCACCTCAGCCTCTGGAGTAGCTGGGACTACCTGTAGGTGCGTGCCACCACGCCAGGTAATCTTTT
ATTTTTGTAGATACCAGTTATCCTATGTTGCCCAGGCTGGTCTCCAACCTCCTGGGCTCAAGCAATCCTCCCACC
TCAGCCTCCCTAAGTGCTGAGATTACAGGTGTGAGTCACTGTGCCCAGCCAACCTGGACTATTCTAAATTTTAAC
AGTGCCTAAGAGAATCATGCTTAATTAATAAACTAGCTGGACGTGGTGGCTTACGCCTGTAATCCCAGCACTTTGG
GAGGCCGAGATGGGCGGATCCCTTGATTCCAGGAGTTCGAGTCCAACCTGGGCAGCACGAAGAAACCCATCTCTC
TACCAAAAATACAAAATTAGCCAGGCATTGTGGTGATACCTGTAGTCCCAGCTGCTTGGGAGGATGAGGCAGG
AGGATTGCTGGAGCCTGGGAGGTGGAGGTGCAAAAAATAATGACTTTTAGTGTTACTGCAGATGCAACGCATG
TTCAGTGTAGACCAATTTAAACTATAGATAAACCAAAACAACAACTTTTCTTTTTTTAAGAGACGGAGTCT
CGCTCTGTTGCCCAGGCTGGAGTGCAGTGGTGCAATCTCGGCTCGCTGCAACCTCAGCCTCCCAGGTTCTAGCAA
CTCCTGCCTCAGCCTCTTGAGTAGCTGGGACTACAGGCGCACACCACCACACCCATCTAATTTTTTGTATTTTAG
TAGAGACGGGGTTTACCTTGTTATCCACTGTGGTCTCAAACCTCCTGAGCTCAGACAATCCGCCCGCCTCGCCTC
CCAAAGCGCTGGGATTACAGGGGTGAGCCACCACACCCGCCAAGAACTTTAAATACTACCTAGAGACAATCCC
TTTTAAACTTTAGTGATGTCTTTTTATACCAATTTCTAGGCTTCTAGGCTCATTTGCAAAAATGAGATACCAC
TGTAATACTTAATCTGTAAATTATCTTTTCAGGAGTCTCTCTGAGTCTCTGGCTCAGGGAGCTGTCTATATA
CATAAATAAGTAAATTTTTTTTTTACAATGGTTGTTGAAGATACTAATAAATATTAGGGCTGGGCACAGTGGTTT
ATAGCTGTAATCCCACCCTTCGGGAGGTCAAGGTGGGAGGATTGCTTTAGCCCAGGAGTTTGAGACCAGCCTGG
GGAACATAATGAGACCCATCTGTAAAAAAGAAATTAATTCACCTTTAGTATTATCTTATTAATAATCCATTG
TGCATTTACACAATCATTTACCTTATCAGTCCCTTCAGAAGAACATTTAAGTTGTTATCACTTACATCCTTGCAG
CTAAATCTTTGAGTACATCCTAATACCTGTCTGTTTTTAATGACCTATCTAAGGAATCCTTTGAAACCTATACAC
TTAACCACGTGTGTTAGCTAAGAGCCTCCAAAAAGGCTGGGTGTGGCGGCTCATGCCTGTAATCCCAGCACTTTGG
GAGTCCGAGGCGAGTGAATCACTTGAGGTCAGGAGTTCGAGACCAGCCGGGCCAACATGGTGAAACCCCGTCTCT
ACAAAAAATGCAAAAATTAGTTGGGCATGGTGGCTCACTCCTGTAGTCTGGCTACTCAGGAGGATAAGTGGGAAG
GATGGCTTAAGCTCAGGAGGTAGAGATTGCAATGAGCCGAGATTGTGCCACTGCACTACAACCTGGGCAACAGAG
CCAGACCCTGTCTCAAAAAAAAAAAAAAAAAA

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FIGURE 1127

CTTGTCCTCCCTGGTTTGTGAAGTGC GGAAAAACCAGAGGCGCAGTCATGTCGGGATTTCGACGATCCTGGCATT
CTACAGCGACAGCTTCGGGGGCGACGCCAGGCCGACGAGGGGCGAGGCCCGCAAATCGCAGCTGCAGAGGCGCTT
CAAGGAGTTTCCTGCGGCAGTACCGAGTGGGCACCGACCGCAGGGGCTTCACCTTCAAATACAGGGATGAAC TCAA
GCGGCATTACAACCTGGGGGAGTACTGGATTGAGGTGGAGATGGAGGATCTGGCCAGCTTTGATGAGGACCTGGC
CGACTACTTGTACAAGCAGCCAGCCAGCACCTGCAGCTGCTGGAGGAAGCTGCCAAGGAGGTAGCTGATGAGGT
GACCCGCGCCCGGCCTTCTGGGGAGGAGGTGCTCCAGGACATCCAGGTCATGCTCAAGTCGGACGCCAGCCCTTC
CAGCAATTCGTAGCCTGAAGTCGGACATGATGTACACCTGGTGAAGATCCCTGGCATCATCATCGCGCCTCTGC
GGTCCGTGCCAAGGCCACCCGCATCTCTATCCAGTGCCGCGAGCTGCCGCAACACCCTCACCAACATTGCCATGCG
CCCTGGCCTCGAGGGCTATGCCCTGCCAGGAAGTGCAACACAGATCAGGCTGGGCGCCCCAAATGCCCATTTGGA
CCCGTACTTCATCATGCCCCGACAAATGCAAATGCGTGGACTTCCAGACCCTGAAGCTGCAGGAGCTGCCTGATGC
AGTCCCCACGGGGAGATGCCAGACACATGCAGCTCTACTGCGACAGGTACCTGTGTGACAAGGTGCTCCCTGG
GAACAGGGTTACCATCATGGGCATCTACTCCATCAAGAAGTTTGGCCTGAACCAGCAGGGGCGGTGACAGGGT
GGGCGTGGGCATCCGAAGCTCCTACATCCGTGTCTGGGCATCCAGGTGGACACAGATGGCTCTGGCCGCGAGCTT
TGCTGGGGCCGTGAGCCCCAGGAGGAGGAGGAGTTCCGTGCGCTGGCTGCCCTCCCAAATGTCTATGAGGTTCAT
CTCCAAGAGCATCGCCCCCTCCATCTTTGGGGGCACAGACATGAAGAAGGCCATTGCCTGCCTGCTCTTTGGGGG
CTCCCGAAAGAGGCTCCCTGATGGACTTACTCGCCGAGGAGACATCAACCTGCTGATGCTAGGGGACCCTGGGAC
AGCCAAGTCCAGCTTCTGAAGTTTGTGGAGAAGTGTCTCCCATTTGGGTATACAGTCTGGGAAAGGCAGCAG
CGCAGCTGGACTGACAGCCTCGGTGATGAGGGACCCTTCGTCCCGGAATTTTCATCATGGAGGGCGGAGCCATGGT
CCTGGCCGATGGTGGGGTCGTCTGTATTGACGAGTTTGACAAGATGCGAGAAGATGACCGTGTGGCAATCCACGA
AGCCATGGAGCAGCAGACCATCTCTATCGCCAAGGCTGGGATCACCACCACCCTGAAC TCCCGCTGCTCCGTCTCT
GGCTGCTGCCAACTCAGTGTTCGGCCGCTGGGATGAGACGAAGGGGGAGGACAACATTGACTTCATGCCCCACCAT
CTTGTCGCGCTTCGACATGATCTTCATCGTCAAGGATGAGCACAATGAGGAGAGGGATGTGATGCTGGCCAAGCA
TGTCATCACTCTGCACGTGAGCGCACTGACACAGACACAGGCTGTGGAGGGCGAGATTGACCTGGCCAAGCTGAA
GAAGTTTATTGCCTACTGCCGAGTGAAATGTGGCCCCCGGCTGTGACGAGAGGCTGCAGAGAACTGAAGAACCG
CTACATCATCATGCGGAGCGGGGCCGTGAGCAGGAGGGGACAGTGACCGCGCTCCAGCATCCCCATCACTGT
GCGGCAGCTGGAGGCCATTGTGCGCATCGCGGAAGCCCTCAGCAAGATGAAGCTGCAGCCCTTCGCCACAGAGGC
AGATGTGGAGGAGGCCCTGCGGCTCTTCCAAGTGTCCACGTTGGATGCTGCCTTGTCCGGTACCTGTGAGGGGT
GGAGGGCTTCACCAGCCAGGAGGACCAGGAGATGCTGAGCCGCATCGAGAAGCAGCTCAAGCGCCGCTTTGCCAT
TGGCTCCCAGGTGTCTGAGCACAGCATCATCAAGGACTTCACCAAGCAGAAATACCCGGAGCACGCCATCCACAA
GGTGTGTCAGCTCATGCTGCGGCGCGGCGAGATCCAGCATCGCATGCAGCGCAAGGTTCTCTACCGCTCAAGTG
AGTGCGCGCCGCTCACTGGACTCATGGACTCGCCACGCCTCGCCCTCCTGCCGCTGCCTGCCATTGACAATGT
TGCTGGGACCTCTGCCTCCCCACTGCAGCCCTCGAAGTTCCAGGCACCCTCCTTTCTGCCCCAGAGGAAGGAGC
TGTAAGTGTCTGCTGCTCTGGGCGCCCGCTCTAGCGCGGTTCTGGGAAGTGTGCTTTTGGCATCCGTTAATAA
TAAAGCCACGGTGTGTTCAAGTAAAAAAAAAAAAA

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FIGURE 1128

MSGFDDPGIFYSDSFGGDAQADEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELKRHYNLGEYWIEVEME
DLASFDEDLADYLYKQPAEHLQLLEEAKEVADEVTRPRPSGEEVLQDIQVMLKSDASPSSIRSLKSDMMSHLVK
IPGIIIAASAVRAKATRISIQCRSCRNTLTNIAMRPGLEGYALPRKCNTDQAGRPKCLDPYFIMPDCKKCVDFQ
TLKLQELPDVPHGEMPRHMLYCDRYLCDKVVPGNRVTIMGIYSIKKFGLTTSRGRDRVGVGIRSSYIRVLGIQ
VDTDGSGRSFAGAVSPQEEEEFRRLAALPNVYEVISKSIAPSIFGGTDMKKAIACLLFGGSRKRLPDGLTRGDI
NLLMLGDPGTAKSQLLKFEKCSPIGVYTSKGSSAAGLTASVMRDPSSRNFIMEGGAMVLADGGVVCIDEFDKM
REDDRVAIHEAMEQQTISIAGITTTLSRCSVLAAANSVFGRWDETKGEDNIDFMPITLSRFDMIFIVKDEHN
EERDVMLAKHVITLHVSALTQTQAVEGEIDLAKLKKFIAYCRVKCGPRLSAEAAEKLKNRYIIMRSGARQHERDS
DRRSSIPITVRQLEAIVRIAEALSKMKLQPFATEADVEEALRLFQVSTLDAALSGTSLSGVEGFTSQEDQEMLSR
EKQLKRRFAIGSQVSEHSIIKDFTKQKYPEHAHKKVLQMLRRGEIQHRMQRKVLYRLK

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FIGURE 1129

CTGGAAGGAGTCAATGGCGGATGGTCAGGTGGCGGAAGTCTGCTCCGGCGGGCTGGAGGCGTCTGATGGCGGGCCTG
GACAGCGCCGAGTTGGCGGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGGCGCCGTGAAGAGCCTTCAGGCG
CTGGGCGAGGTCAATCGAGGCTGAACCTTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATTGCC
CGGGAGGGCAGCCATGAGGCGCGTGTGTTTCGAAGCATTCCCCAGAGGGCCTGGCCCAGAGCGAGCTTATGCGA
CTGCCCAGTGGCAAAGTGGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTTCGGGTGGACAAGAGTGGCGGTGAC
GGGCCCCGGGTGTTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGCGGGCTCCAGCTGGTCCGGGGGGGA
CAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGCTGTTGGCTGAAGTGAATCTGAAG
ACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAAGCAAGAGACAGAGCTGAGCCCAGAGATG
ATCTCCAGTGGCTCTTGGCGGGACCGGCCCTTCAAGCCCTACAACCTTCTTGGCCACGGTGTCTCCCCGACAGC
GGCCACCTTCACCCGCTGCTCAAGGTCCGCTCCCAGTTCGACAGATCTTCTGGAGATGGGGTTCACCGAGATG
CCGACTGATAACTTCATTGAGAGCTCCTTCTGGAACCTTTGACGCCCTCTTCCAGCCCCAGCAGCACCCAGCCCCGT
GACCAGCACGACACCTTCTTCTTCGAGATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTC
AAGCGGACCCACTCTCAGGGCGGGCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCGGAAA
AACCTACTGCGAACCCACACCACATCAGCCAGCGCCCGTGGCTCTACCGCCTTGCCAGAGAAGGCCCTTCACT
CCGGTCAAGTACTTCTCCATCGACCGCGIATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTTCCAC
CAGATCGAGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGGCGTTCTGCGGGAGTTCTTCACC
AAGCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCCAGCATGGAGGTGTTTCAGC
TACCACCAAGGCCTGAAGAAGTGGGTGGAGGTCGGAAGTCCGGGGTCTTCCGTCCAGAGATGCTGCTGCCCATG
GGGCTTCCCAGAACGTGTCGGTCATTGCCTGGGGCCTCTCCCTGGAGCGCCCAACGATGATCAAATATGGCATC
AACAAATATCCGGGAGCTGGTGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGTCCCCTGTGCCGCTGGAT
GCCGAGCCGAGGCCCCCTCCACACAGGAGGCTGCGTTGACATGGGGCACTCTAGGACAGGTTCATCTCCCCGAGT
CCCTGCTGCTGCGCTCCTTTGCATCCCTGGCCAGTGACCTTGTATTTATGAGGCTCTGTGAGGCCAGCCCCACC
TTCTCTTTCCACCTGTCCAGGACCAGAATCCAGGGACAGAGGACTGGGTAGCAGGTTCTTCTGTTGTCTT
GTGTGGTGTGTCTACTGTGAGGTGGGCCCTGAGGAGACCTGTGGGCCACCTATTGTCTAATAAAGTGGGCAGTT
GCCCCCA

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FIGURE 1130

MADGQVAELLRRLEASDGGLD SAELAAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAEGEEIAREGS
HEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVVD SMEDEVQRRQLVRGGQAEK
LGEKERSELRRKLLAEVTLKTYWVSKGSAFSTSISKQETELSPEMISSGSWRDRPFKPYNFLAHGVL PDSGHLH
PLLKVR SQFRQIFLEMGFTEMPD NFIESSFWNFDALFQPPQH PARDQHDTFFLRDP AEALQLPMDYVQRVKRTH
SQGGYGSQGYKYNWKLDEARKNLLRTH TTSASARALYRLAQKKPFTPVKYFSIDRVFRNETLDATHLAEFHQIEG
VVADHGLTLGHLMGVLR EFFTKLGITQLRFKPAYN PYTEPSMEVFSYHQGLKKWVEVGNSGVFRPEMLLPMGLPE
NVSVIAWGLSLERPTMIKYGINNIRELVGHKVN LQM VYDSPLCRLDAEPRPPPTQEAA

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FIGURE 1131

GAATTCGGGCGTGGGCGCGGGGGCGCGCGTGCAGGGCTGAAGCGGCGGCGGCGGTGGGGACTGC
ACGTAGCCCGGCGCTCGGCATGGCTCTCCTGGTGCTCGGTCTGGTGAGCTGTACCTTCTTTCTGGCAGTGAATGG
TCTGTATTCTCTAGTGATGATGTGATCGAATTAACCTCCATCAAATTTCAACCGAGAAGTTATTCAGAGTGATAG
TTTGTGGCTTGTAGAATTCTATGCTCCATGGTGTGGTCACTGTCAAAGATTAAACACCAGAATGGAAGAAAGCAGC
AACTGCATTAAAAGATGTTGTCAAAGTTGGTGCAGTTGATGCAGATAAGCATCATTCCCTAGGAGGTCAGTATGG
TGTTCAAGGATTTTCTACCATTAAGATTTTGGATCCAACAAAAACAGACCAGAAGATTACCAAGGTGGCAGAAC
TGGTGAAGCCATTGTAGATGCTGCGCTGAGTGCTCTGCGCCAGCTCGTGAAGGATCGCCTCGGGGGACGGAGCGG
AGGATACAGTTCTGGAAAAACAAGGCAGAAGTGATAGTTCAAGTAAGAAGGATGTGATTGAGCTGACAGACGACAG
CTTTGATAAGAATGTTCTGGACAGTGAAGATGTTTGGATGGTTGAGTTCTATGCTCCTTGGTGTGGACACTGCAA
AAACCTAGAGCCAGAGTGGGCTGCCGCAGCTTCAGAAGTAAAAGAGCAGACGAAAGGAAAAGTGAACCTGGCAGC
TGTGGATGCTACAGTCAATCAGGTTCTGGCTCCCGATACGGGATTAGAGGATTTCTTACAATCAAGATATTTCA
GAAAGGCGAGTCTCCTGTGGATTATGACGGTGGGCGGACAAGATCCGACATCGTGTCCCGGGCCCTTGATTGTGTT
TTCTGATAACGCCCCACCTCCTGAGCTGCTTGAGATTATCAACGAGGACATTGCCAAGAGGACGTGTGAGGAGCA
CCAGCTCTGTGTTGTGGCTGTGCTGCCCCATATCCTTGATACTGGAGCTGCAGGCAGAAATCTTATCTGGAAGT
TCTTCTGAAGTTGGCAGACAAATACAAAAAGAAAATGTGGGGGTGGCTGTGGACAGAAGCTGGAGCCAGTCTGA
ACTTGAGACCGCGTTGGGGATTGGAGGGTTTGGGTACCCCGCCATGGCCGCCATCAATGCACGCAAGATGAAATT
TGCTCTGCTAAAAGGCTCCTTCAGTGAGCAAGGCATCAACGAGTTTCTCAGGGAGCTCTCTTTGGGCGTGGCTC
CACGGCACCTGTAGGAGGCGGGGCTTTCCCTACCATCGTTGAGAGAGAGCCTTGGGACGGCAGGGATGGCGAGCT
TCCCGTGGAGGATGACATTGACCTCAGTGATGTGGAGCTTGATGACTTAGGGAAAGATGAGTTGTAGAGCCACA
ACAGAGGCTTCAGACCATTTCTTTTCTTGGGAGCCAGTGGATTTTCCAGCAGTGAAGGGACATTCTCTACTTT
CTTTTCTTGGGAGCCAGTGGATTTTCCAGCAGTGAAGGGACATTCTCTACACTCAGATGACTCTACCACTGGCC
TTTTAACCAAGAAGTAGTACTTGATTGGTCATTTGAAAACACTGCAACAGTGAACCTTTGCATCTCAAGAAAACA
TTGAAAAATTCTATGAATTGTGTAGCCGGTGAATTGAGTCGTATTCTGTACATAATATTTGAAGAAAACCTG
GCTGTGCAAAACATTTTCTCTCTGACTGCTGCTTGAATGTTCTTGGAGGCTGTTCTTATGTATGGGTTTTTTTT
AATGTGATCCCTTCATTTGAATATTAATGGCTTTTCCATTAAAGAATAAATTGGAAAAAGAAAAAAAAAAAAA
GGAATTC

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FIGURE 1132

MALLVLGLVSCFFLAVNGLYSSSDVIELTPSNFNREVIQSDSLWLVEFYAPWCGHCQRLTPEWKKAATALKDV
VKVGAVDADKHHSLSGGQYGVQGFFTIKIFGSNKNRPEDYQGGRTGEAIVDAALSALRQLVKDRLGGRSGGYSSGK
QGRSDSSSKKDVIELTDDSFDKNVLDSEDVWMVEFYAPWCGHCKNLEPEWAAAASEVKEQTKGKVKLAAVDATVN
QVLASRYGIRGFFTIKIFQGESFVDYDGGRTSRDIVSRALDLFSDNAPPELLEIINEDIKRTCEEHQLCVVA
VLPHILDTGAAGRNSYLEVLLKLADKYKKMMWGLWTEAGAQSELETALGIGGFGYPAMAAINARKMKFALLKGS
FSEQGINEFLRELSFGRGSTAPVGGGAFPTIVEREPWDGRDGELPVEDDIDLSDVELDDLKDEL

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FIGURE 1133

TAGATGGCAACCTCCCTATCTGCCCGCAGGTCATAGAGGCGACACGTAGCGTCATCTGACCCTGAAGCAAAGGCA
TCTCCACTCCAAAGTTAGACAAAATGCCAGGAATGTTCTTCTCTGCTAACCCTAAAGGAATTGAAAGGAACCACTC
ATTCACTTCTAGACGACAAAAATGCAAAAAAGGAGGCCAAAGACTTTTGGAAATGGATATGAAAGCATACCTGAGAT
CTATGATCCACATCTGGAATCTGGAATGAAATCTTCCAAGTCCAAGGATGTACTTTCTGCTGCTGAAGTAATGC
AATGGTCTCAATCTCTGGAATACTTCTTGCCAACCAAACTGGTCAAAATGTCTTTGGAAGTTTCCTAAAGTCTG
AATTCAGTGAGGAGAATATTGAGTTCTGGCTGGCTTGTGAAGACTATAAGAAAAACAGAGTCTGATCTTTTGCCCT
GTAAAGCAGAAGAGATATATAAAGCATTGTGTCATTGATGCTGCTAAACAAATCAATATTGACTTCCGCACTC
GAGAATCTACAGCCAAGAAGATTAAAGCACCAACCCCCACGTGTTTTGATGAAGCACAAAAAGTCATATATACTC
TTATGGAAAAGGACTCTTATCCAGGTTCCCTCAAATCAGATATTTACTTAAATCTTCTAAATGACCTGCAGGCTA
ATAGCCTAAAGTGACTGGTCCCTGGCTGAAGGGAATTAACAGATAGTATCAAGGCACGAAGGAATGTGCCAGTAT
GGCTCCCTGGGTGAACAGCTTGCCCTTTTTTGGGTGTCTTGACAGGCCAAGAAGAACAAATGACTCAGAATGGAT
TAACATGAAAGTTATCCAGGCGCAGAGTTGAAGAAGCATAAGCAAGACAAAAACAGAGAGACCGCAGAAGGAGGA
AGATACTGTGGTACTGTCTATAAAAAACAGTGGAGCTCTGTATTAGAAAGCCCCCTCAGAACTGGGAAGGCCAGGTA
ACTCTAGTTACACAGAACTGTGACTAAAGTCTATGAACTGATTACAACAGGCTGTAAGAATCAAAGTCAACTG
ACATCTATGCTACATATTATTATATAGTTTGTACTGAGCTATTGAAGTCCATTAACTTAAAGTATATGTTTTCA
AATTGCCATTGCTACTATTGCTTGTGCGGTGATTTTATTTTATTGTTTTGACTTTGGAAGAGATGAACTGTGTA
TTTAACTTAAAGCTATTGCTCTTAAACAGGGATCAGAATATATTGTAAGTTAAATCATTGGTGCTAATAATAA
ATGTGGATTTTGTATTAAATATATAGAAGCAATTTCTGTTTACATGTCCTTGCTACTTTTAAAAACTGCATTT
ATTCCTCAGATTTTAAAAATAAATAAATAATTCATTAAAAA

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FIGURE 1134

MPGMFFSANPKELKGTTHSLDDKMQRPKTFGMDMKAYLRSMIPHLESGMKSSKSKDVLSAAEVMQWSQSLEK
LLANQTGQNVFGSFLKSEFSEENIEFWLACEDYKKTESDLLPCKAEEIYKAFVHSDAAKQINIDFRTRESTAKKI
KAPTPTCFDEAQKVIYTLMEKDSYPRFLKSDIYLNLLNDLQANSLK

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FIGURE 1135

GAATTCCGGCAGGCACAAACTCATCCATCCCCAGTTGATTGGAAGAAACAACGATGACTCCTGGGAAGACCTCAT
TGGTGTCACTGCTACTGCTGCTGAGCCTGGAGGCCATAGTGAAGGCAGGAATCACAATCCCACGAAATCCAGGAT
GCCCCAAATTCTGAGGACAAGAACTTCCCCCGGACTGTGATGGTCAACCTGAACATCCATAACCGGAATACCAATA
CCAATCCCAAAAGGTCCTCAGATTACTACAACCGATCCACCTCACCTTGGAACTCTCCACCGCAATGAGGACCTTG
AGAGATATCCCTCTGTGATCTGGGAGGCCAAAGTGCCGCCACTTGGGCTGCATCAACGCTGATGGGAACGTGGACT
ACCACATGAACCTCTGTCCCATCCAGCAAGAGATCCTGGTCTGCGCAGGGAGCCTCCACACTGCCCCAACTCCT
TCCGGCTGGAGAAGATACTGGTGTCCGTGGGCTGCACCTGTGTCACCCCGATTGTCCACCATGTGGCCTAAGAGC
TCTGGGGAGCCACACTCCCCAAAGCAGTTAGACTATGGAGAGCCGACCCAGCCCCCTCAGGAACCCCTCATCCTTC
AAAGACAGCCTCATTTCGGACTAAACTCATTAGAGTTCTTAAGGCAGTTTGTCCAATTAAAGCTTCAGAGGTAAC
ACTTGGCCAAGATATGAGATCTGAATTACCTTTCCCTCTTTCCAAGAAGGAAGGTTTGACTGACTACCAATTTC
TTCTTGTTTACTTTTTTAAAGGGCTTTAAGTTATTTATGTTATTTAATATGCCCTGAGATAACTTTGGGGTATAAGA
TTCCATTTTAATGAATTACCTACTTTTATTTTGTGTTGTTTAAAGAAGATAAGATTCTGGGCTTGGGAATTTT
ATTATTTAAAGGTAAACCTGTATTTATTTGAGCTATTTAAGGATCTATTTATGTTTAAAGTATTTAGAAAAAGG
TGAAAAAGCACTATTATCAGTTCTGCCTAGGTAAATGTAAGATAGAATTAAATGGCAGTGCAAAATTTCTGAGTC
TTTACAACATACGGATATAGTATTTCTCCTCTTTGTTTTTAAAGTTATAACATGGCTGAAAAGAAAGATTAAA
CCTACTTTTCATATGTATTAATTTAAATTTTGCAATTTGTTGAGGTTTTACAAGAGATACAGCAAGTCTAACTCTC
TGTTCCATTAAACCCTTATAATAAAATCCTTCTGTAATAATAAAGTTTCAAAGAAAATGTTTATTTGTTCTCAT
TAAATGTATTTTAGCAAACCTCAGCTCTTCCCTATGGGAAGAGTTATGCAAATCTCCTATAAGCAAAACAAAGC
ATGTCTTTGAGTAACAATGACCTGGAAATACCCAAAATTCAGTTCTCGATTTACATGCCTTCAAGACTGAAC
ACCGACTAAGGTTTTCTACTATTAGCCAATGCTGTAGACAGAAGCATTTTGATAGGAATAGAGCAAATAAGATA
ATGGCCCTGAGGAATGGCATGTCATTATTAAGATCATATGGGGAAAATGAAACCCTCCCCAAAATACAAGAAGT
TCTGGGAGGAGACATTGTCTTCAGACTACAATGTCCAGTTTCTCCCTAGACTCAGGCTTCCTTTGGAGATTAAAG
GCCCCCTCAGAGATCAACAGACCAACATTTTTCTTCTCTCAAGCAACACTCCTAGGGCCTGGCTTCTGTCTGATC
AAGGCACCACACAACCCAGAAAGGAGCTGATGGGGCAGAATGAACTTAAGTATGAGAAAAGTTCAGCCCAAGTA
AAATAAAACTCAATCACATTCAATTCAGAGTAGTTTCAAGTTTCACATCGTAACCATTTTCGCCCCGAATTC

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FIGURE 1136

MTPGKTSLVSLLLLLSLEAIVKAGITIPRNP GCPNSEDKNFPRTVMVNLNIHNRNTNTNPKRSSDYYNRSTSPWN
LHRNEDPERYP S VIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLEKILVSVGCTCVTP I
VHHVA

GGCAGGAGGCACGTGGGTTCTAGCGTGTTTCTACGTCCTCGGAGGAGCGGTCATTAAAGCTCATTCTCTGCCACAG
GCTTAGTCAACATGGGTCGCTCGGGAAAGTTGCCCTCTGGTGCTCAGCTAAGTTGAAGCGCTGGAAGAAAGGCC
ACAGCAGCGACAGCAACCCCGCCATCTGCCGCCACCGTCAGGCCGCCCGCAGCCGCTTCTTCAGCCGGCCGTCAG
GAAGGAGTGACCTGACAGTCGATGCTGTGAAGTTACATAATGAGCTGCAGTCAGGGTCCTTGCCTTGGGCAAAA
GCGAAGCCCCGGAGACGCCCATGGAAGAAGAGCGGAGCTGGTTCTCACCAGAAAGTCTCGGGTACCTTCTCTGA
GTGGCCTTTCCGACTGCACAAACGTCACCTTCAGCAAAGTACAGCGCTTCTGGGAGTCCAACCTCGGCTGCCACA
AGGAGATCTGTGCTGTTCTGGCTGCTGTCACTGAAGTGATTGCTCCCAGGGAGGGAAGGAGACGGAGACTGAGT
ACTTCGCTGCTCTGATGACAACAATGGAAGCAGTGGAGTCCCCGGAGTCCCTGGCCGCCGTTGCTTACCTGCTGA
ACCTTGTCCTGAAGCGTGTTCCAGCCCTGTGCTTATTAAGAAGTTCTCTGATACCTCCAAAGCCTTCATGGATA
TCATGTCAGCTCAGGCCAGCAGCGGCTCCACCTCTGTCTCCGATGGGTCTTTTCTGCCTGGCCACCCTTCTGC
GGAAGCAAGACCTGGAGGCTGGGGCTACCCCGTGACCCTTCAGGTGTACCATGGGCTGCTGAGCTTCACGGTGC
ATCCCAAGCCCAAGATCCGGAAGGCTGCCAGCATGGAGTATGCTCAGTCTCTCAAGGCGAGTGAATTCATGTTTG
AAAAGGCCCTGCCCATCATCTGCTGCCATTTCCACTGCCAAGTTCTGCATCCAGGAGATTGAGAAGTCTGGAG
GCTCCAAGGAGGCCACCACCACGCTGCACATGCTGACGCTGCTGAAGGACCTGCTGCCCTGCTTCCCGGAAGGCC
TGGTGAAGAGCTGCAGTGAGACTCTCTCAGGGTCATGACCTTGAGCCATGTGCTGGTGACAGCCTGTGCCATGC
AGGCCTTTACAGCCTCTTCCAGCCAGGCTGGCCTGAGCACCCTGTCAGCAGAGCTCAACGCCCAGATCATCA
CGGCCCTGTACGACTATGTTCCAGTGAGAATGATTACAACCCCTGCTAGCCTGGCTTAAGGTTCATGGAGAAAG
CCCACATCAACCTGGTGAGGTTGCAGTGGGACCTGGGGCTAGGCCACCTCCCTCGCTTTTTTGGAACTGCGGTGA
CCTGCCCTCTTTCCCCACACTCGCAAGTGCTGACTGCTGCTACGCAGAGCCTCAAGGAGATCCTGAAGGAATGCG
TGGCTCCCCACATGGCTGACATTGGCTCCGTGACCTCCTCGGCCTCAGGCCCTGCCCAATCTGTTGCCAAGATGT
TCAGGGCAGTGGAGGAGGGCCTGACGTACAAATTCCATGCGGCCTGGAGCTCCGTGTTGCAGCTGCTGTGTGCTCT
TCTTCGAGCGTGTTGGGAGACAGGCCACCCTGTGATGAGGAAGTGCTCCAGTCCCTGTGTGACCTGCGCCTCT
CCCCTCATTTCCCCACACGGCGGCTCTTGACCAGGCAGTGGGGGCTGCGGTGACCAGTATGGGACCTGAGGTGG
TGCTGACAGCTGTGCCTTTGGAAATTGATGGCTCTGAGGAGACTCTGGATTTCCACGGAGCTGGCTGCTGCCTG
TCATCCGAGACCATGTTTCAGGAAACGCGACTTGTTTTCACCACCTACTTCTTGCCCTGGCTAACACCCTGA
AGAGCAAAGCCATGGACCTGGCTCAGGCAGGCAGCACAGTGAATCTAAGATCTACGACACACTCCAGTGGCAGA
TGTGGACACTCCTGCCTGGGTTCTGCACAAGGCCTACAGATGTGGCCATCTCCTTCAAAGGGCTGGCACGGACGC
TGGGCATGGCCATCAGCGAGCGTCCAGACCTGAGGGTACCCTGTGCCAGGCCCTGCGCACCCCTCATCACCAGG
GCTGCCAGGCAGAGGCTGACCGTGCTGAAGTGAGTCGCTTGGCAAAGAACTTCTGCGGATCCTCTTCAACCTGT
ATGGGCAGCCCGTGGCAGCCGGGGACACTCCAGCCCCCTGCGGGGCTGTGCTGGAACCATCAGAAGCTTACCTCA
CCATCACTGACACTCAGTTGGTGAACAGTCTCCTGGA AAAAGCCAGTGAGAAGGTGCTCGACCTGCCAGCTCTG
ACTTTACCAGATTGTCTGTCTGACCTGGTGTGCTGGCCTTGCTCCGTGTGCTGACGAAGCTGCCATCAGTAAGC
TATACTCCACCATCCGGCCCTACCTAGAGAGCAAGGCCACGGGGTGCAAGAAGGCCTACCGAGTGCTGGAGG
AGGTGTGTGCCAGTCTCAGGGCCCCGGGGCCCTCTTCGTGTCAGAGCCACCTGGAGGACCTGAAGAAGACACTGC
TGGACTCGCTGCGGAGCAGCTCTCACC CGCCAAAGAGGCCCGTTTGAAGTGCTCCTACACATCGTGAGGAAGC
TCTCAGCTGAACACAAGGAGTTATCACTGCGCCTCATCCCAGAGGTGATCCTGTGCACCAAGGAGGTGTCGGTGG
GCGCAGCGAAGAAGCCTTTTGACTGCTCGTGAGAGATGGGCCATGCTTTCTTAAGGTTTGCTCGAACCAGGAAG
AGGCCCTGCAAGTGTACTCTGCTGATCTACCCTGGCCTGGTGGGCGCGGTGACCATGGTCAGCTGCAGCATCC
TGGCCCTGACCCACCTCCTTTTCGAGTTTAAAGGTCTGATGGGGACCAGTACAGTGGAGCAGCTGCTGGAGAATG
TGTGCCTGCTTCTGGCCTCCCGCACCCGTGACGTGGTCAAGTCTGCACTGGGCTTCATCAAGGTGGCAGTGACTG
TCATGGACGTGGCGCACTGGCCAAACATGTGCAGCTGGTGATGGAAGCCATTGGGAAGCTTTCAGATGACATGC
GGCGGCACCTCCGCATGAAGCTTCGGAACCTGTTACCAAGTTCATCCGCAAGTTTGATTGAGCTGGTGAAAA
GGCTGTTGCCCCGAGGAGTACCACAGAGTCCTGGTCAACATCCGGAAGAGCTGAGGCCCGGGCCAAGAGGCACCGAG
CCCTGAGCAGGCTGCCGTGGAGGAGGAAGAAGAGGAGGAGGAGGAGGAGGCCCGCCAGGGCAAAGGTGACA
GCATTGAGGAGATTTAGCTGACTCAGAGGACGAGGAGGACAATGAGGAGGAGGAAGAAGCCGAGGCAAGGAGC
AGCGGAAGCTGGCACGACAGAGGAGCCGGCATGGCTGAAAGAGGGCGGTGGGGACGAGCCCTCAACTTCTTG
ATCCCAAGGTGGCCCAACGAGTCTGGCCACGCAGCCAGGGCCAGGCCGGGGCAGGAAGAAGGACCACAGCTTCA
AGGTGAGCGCCGATGGCCGGCTGATCATAAGGGAGGAGGCAGACGGCAACAAGATGGAGGAAGAGGAAGGTGCCA

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FIGURE 1137B

AAGGCGAAGATGAAGAGATGGCTGACCCAATGGAAGATGTGATCATCAGGAATAAAAAGCACCAGAAGCTCAAGC
ACCAGAAAGAGGCTGAGGAGGAGGAGCTGGAGATACCCCTCAGTACCAAGCTGGAGGCTCTGGCATTTCATCGCC
CTGTGGCCAAGAAGGCTATGCCTGGGGCTGAATACAAGGCCAAGAAAGCAAAAGGTGATGTGAAGAAGAAAGGCC
GGCCGGATCCCTATGCCTACATCCCCCTCAACAGAAGCAAGCTCAACCGCAGGAAGAAGATGAAGCTGCAGGGAC
AGTTCAAAGGCCTGGTGAAGGCTGCCCCGGCGAGGTTCCAGGTGGGACACAAAAACCGCAGAAAGGATCGTCGAC
CCTGAGAGGCCAGGGCCCCCTGGGCTGCCCTGTGGTCCAGTCTGAGGCCCTTTCAGCCCCCAGGCTGCCTTGCCACC
AGCTCCAGGTGCTCAAGATTCTGGCAGAGCCTGGACTCAGGATGACTTGGAAGTGGGCTTGCTCTCAGAAGTC
CTGGATTTTGAAAACCTCCAAATGGAATCACCTTCAGAGACATCCCTGGTGCCTGGAGATGGGAATGTGGCCTCA
GTGCCCTCTGAGTAGGTGCCATGAGGCACCTTTGCTTTCTGCCCAGAGTGGCCATGAGCACCAGAACAGATGATCT
CCATTTCGCCAGCTGCCTGTAGCCACGTGGCATCCTGCCTGTGGTCTGGGTGAGATTTACTGTGACCAGATGTA
GAATAAATGTGTCTCATCCTGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1138

MGRSGKLPSGVSAKLKRWKKGHSSDSNPAICRHRQAARSRRFFSRPSGRSDLTVDVAVKLHNELQSGSLRLGKSEAP
ETPMEEEAELVLTEKSSGTFLSGLSDCTNVTFSKVQRFWESNSAAHKEICAVLAAVTEVIRSQGGKETETETEFYFAA
LMTTMEAVESPESLAAVAYLLNLVLRVPSPLIKKFSDTSKAFMDIMSAQASSGSTSVLRWVLSCLATLLRKQD
LEAWGYPTVLQVYHGLLSFTVHPKPKIRKAAQHGVCSVLKGSEFMFEKAPAHHPAAISTAKFCIQEIEKSGGSKE
ATTTLHMLTLLKDLLPCFPEGLVKSCSETLLRVMTLSHVLVTACAMQAFHSLFHARFGLSTLSAELNAQIITALY
DYVPSENDLQPLLAWLKVMEKAHINLVRLQWDLGLGHLPRFFGTAVTCLLSPHSQVLTAATQSLKEILKECVAPH
MADIGSVTSSASGPAQSVAKMFRAVEEGLTYKFHAAWSSVLQLLCVFFEACGRQAHPVMRKCLQSLCDLRLSPHF
PHTAALDQAVGAAVTSMGPEVVLQAVPLEIDGSEETLDFPRSWLLPVIRDHVQETRLGFFTTYFLPLANTLKSKA
MDLAQAGSTVESKIYDTLQWQMWTLPGFCTRPIDVAISFKGLARTLGMAISERPDLRVTVCQALRTLITKGCQA
EADRAEVSRLFKNFLPILFNLYGQPVAAAGDTPAPRRAVLETIRTYLTITDTQLVNSLLEKASEKVLDPASSDFTR
LSVLDLVVALAPCADEAAISKLYSTIRPYLESKAHGVQKKAYRVLEEVCA SPQGP GALFVQSHLEDLKKTLTLDL
RSTSSPAKRPRCLKLLHIVRKLSAEHKEFITALIPEVILCTKEVSVGARKNAFALLVEMGHAF LRFGSNQEEALQ
CYLVLIYPGLVGAVTMVSCSILALTHLLFEFKGLMGTSTVEQLLENVCLLLASRTDVDVKSALGFIKVAVTVM DV
AHLAKHVQLVME AIGKLSDDMRHFRMKLRLNLF TKFIRKFGFELVKRLLP EYHRVLVNI RKA EARA KHRHRSQ
AAVEEEEEEEEEEP AQGKGDSIEEILADSEDEEDNEEEERSRGKEQRKLARQRSRAWLKEGGGDEPLNFLDPKV
AQRVLATQPGPGRGRKKDHSFKVSADGRLLIREEADGNKMEEEGAKGEDEEMADPMEDVIIRNKKHQKLKHQKE
AEEEELEIPPQYQAGGSGIHRPVAKKAMP GA EYKAKKAKGDVKKKGRPDYAYIPLNRSKLNRRKKMKLQGGQFKG
LVKAARRGSQVGHKNRRKDRRP

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FIGURE 1139

GATAAACAACTTGATGCAGATGTTTCCCCCAAGCCCACTATTTTCTTCCTTCGATTGCTGAAACAAAACCTCCAG
AAGGCTGGAACATACCTTTGTCTTCTTGAGAAATTTTCCCAGATATTATTAAGATACATTGGCAAGAAAAGAAG
AGCAACACGATTCTGGGATCCCAAAGACAATTGGTCAAAAGATGCAAATGATACACTACTGCTGCAGCTCACAAA
CACCTCTGCATATTACATGTACCTCCTCCTGCTCCTCAAGAGTGTGGTCTATTTTGCCATCATCACCTGCTGTCT
GCTTGGAAGAACGGCTTTCTGCTGCAATGGAGAGAAATCATAACAGACGGTGGCACAAGGAGGCCATCTTTTCCT
CATCGGTTATTGTCCCTAGAAGCGTCTTCTGAGGATCTAGTTGGGCTTTCTTTCTGGGTTTGGGCCATTTCAGTT
CTCATGTGTGTACTATTCTATCTATTGTATAATGGTTTTCAAACCAGTGGGCACACAGAGAACCTCACTCTGTAA
TAACAATGAGGAATAGCCATGGCGATCTCCAGCACCAATCTCTCCATGTTTTCCACAGCTCCTCCAGCCAACCCA
AATAGCGCCTGCTATAGTGTAGACAGCCTGCGGCTTCTAGCCTTGTCCTCTCTTAGTGTTCTTTAATCAGATAA
CTGCCTGGAAGCCTTTCATTTTACACGCCCTGAAGCAGTCTTCTTTGCTAGTTGAATTATGTGGTGTGTTTTCC
GTAATAAGCAAAATAAAATTTAAAAAATGAAAAGTT

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FIGURE 1140

CAAGGCTGAACGTCCAGGTACCTCCACGCCCCGTGATCGTGATGCGCGGGGCTGCTGGCCTGCAGCGGGAGATCC
AGGAGGGTGCCCTACTCCGGGAGCTGCTACCATCGAGATGGCTTACGGCTGAGTATACAGTTTGAGGTGAGGCGGG
TGGAGCTCCAGGGCCCCACACCTCTGTTCTGCTGCTGGCTGGTGAAAGACCTCCTCCACAGCCAACGCGACTCAG
CCGCCAGGACCCGCTGTTCTTGCCAGCCTGCCCCGGCTCCACCCACTCTACCGCTGCTGAGCTACCGGACCCA
GCCTGGTGGAAGTGC TCAGAGCCAGACCCTGGTTTGAGGAGCCCCCAAGGCTGTGGAAGTGGAGGGGTTGGCGG
CCTGTGAGGGCGAGTACTCCAAAAGTACAGTACCATGAGCCCGCTGGGCAGTGGGGCCTTCGGCTTCGTGTGGA
CTGCTGTGGACAAGGAAAAAACAAGGAGGTGGTGGTGAAAGTTTATTAGAAGGAGAAGGTCTTGAGGATTGTT
GGATTGAGGATCCCAAACCTTGGGAAAGTTACTTTAGAGATCGCAATTCTATCCAGGGTGGAGCACGCCAATATCA
TCAAGGTATTGGATATATTTGAAAACCAAGGGTTCTTCCAGCTTGTGATGGAGAAGCACGGCTCCGGCCTAGACC
TCTTCGCTTTTCATCGACCGCCACCCAGGCTGGATGAGCCCTGGCGAGCTACATCTTCGACAACCTAGTGTGAG
CAGTGGGATACCTGCGCTTGAAGGACATCATCCACCGTGACTTCAAGGATGAGAACATCGTGATCGCCGAGGACT
TCACAATCAAGCTGATAGACTTTGGCTCGGCCGCTACTTGGAAAGGGGAAAATTATTTTATACTTTTTGTGGGA
CCATCGAGTACTGTGCACCGGAAGTTCTCATGGGGAATCCCTACAGAGGGCCGGAGCTGGAGATGTGGTCTCTGG
GAGTCACTCTGTACACGCTGGTCTTTGAGGAGAACCCTTCTGTGAGCTGGAGGAGACCGTGGAGGCTGCCATAC
ACCCGCCATACCTGGTGTCCAAAGAACTCATGAGCCTTGTGTCTGGGCTGCTGCAGCCAGTCCCTGAGAGACGCA
CCACCTTGGAGAAGCTGGTGACAGACCCGTGGGTAACACAGCCTGTGAATCTTGCTGACTATACATGGGAAGAGG
TGTTTCGAGTAAACAAGCCAGAAAGTGGAGTTCTGTCCGCTGCGAGCCTGGAGATGGGGAACAGGAGCCTGAGTG
ATGTGGCCCAGGCTCAGGAGCTTTGTGGGGGCCCCGTTCCAGGCGAGGCTCCTAATGGCCAAGGCTGTTTGCATC
CCGGGGATCCCCGCTGCTGACAGCTAAACACCAATTTCTTCTGCTTTTCTCCACTTGGTTTGGAAAATCACA
CAGTTTTTCAGGCTCCATCTGTTTGGAGAAAATACATTCTGAAGCATCCCCAATTCACCTTCTAAAAACTCATGTG
CAGGTTTGATAAACACCAGAACAGAAGACAGTGTGCTGTATTATTTTAGATTATTACATAGATTGGAATTCA
CTTTTTTCATGACCTAGAAAAAACATTCCAGTGTTCAACTGTTTTATATTATTAAGGGCTTTTAATTTGTGAA
CTTCTGAAGGCATGAGTGTCTTTCTTTCTACTTTTGTATATGTGCATGTTTGTTCCTCTGACTTGGTATATG
CTCATCTGAGTGACGGATATGTGAAATTTGTAGAACTGGTTAGTCAAATGGCCAGACTATTTCAATTAATTTATT
CCTCAAATGCTTTTCAAATTAAGCACCTTTGTTAGTAAACAGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

A

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FIGURE 1141

GAATTCGCGGGAGGCCACGGGCTTTCCACAGCGCGGGGAACGGGAGGCTGCAGGATGGTCAAGCTGACGGCGG
AGCTGATCGAGCAGGCGGCGCAGTACACCAACGCGGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTC
CCGTCATTGAAAATCTAGGTGCTACGTTAGACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAAAC
TGGATGGTTTTCCITTTGTTGAGAAGACTGAAAACATTGTTAGTGAACAACAACAGAATATGCCGTATAGGTGAGG
GACTTGATCAGGCTCTGCCCTGTCTGACAGAACTCATTCTCACCAATAATAGTCTCGTGGAACTGGGTGATCTGG
ACCCTCTGGCATCTCTCAAATCGCTGACTTACCTAAGTATCCTAAGAAATCCGGTAACCAATAAGAAGCATTACA
GATTGTATGTGATTTATAAAAGTTCCGCAAGTCAGAGTACTGGATTTCCAGAAAGTGAACTAAAAGAGCGTCAGG
AAGCAGAGAAAATGTTCAAGGGCAAACGGGGTGACAGCTTGCAAAGGATATTGCCAGGAGAAGCAAACTTTTA
ATCCAGGTGCTGGTTTGCCAACCTGACAAAAAGAGAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATG
CCATAGCAAATGCTTCAACTCTGGCTGAAGTGGAGAGGCTGAAGGGGTTGCTGCAGTCTGGTCAGATCCCTGGCA
GAGAACGCAGATCAGGGCCCACTGATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCCTGAG
CAGTGAGGCAGATGTATAATAATAGGCCCTCTTGAACAAGTCTTGCTTTTCGAACATGGTATAATAGCCTTGTT
TGTGTTAGCAAAGTGGAATCTATCAGCATTGTTGAAATGCTTAAGACTGCTGCTGATAATTTTGTAAATAAGTT
TTGAAATCTAAATGTCAATTTTCTACAAATTATAAAAATAAACTCCACTCTCTATGCTAAAAAAAAAAAAAGGA
ATTC

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FIGURE 1142

MVKLTAEIEQAAQYTNVDRRELDLRGYKIPVIENLGATLDQFDAIDFSDNEIRKLDGFLLRRLKTLLVNNNR
ICRIGEGLDQALPCLTELILTNNLSLVELGDLDPASLKSILTYLSILRNPVTNKKHYRLYVIYKVPQVRVLDFQKV
KLKERQEAEMFKGKRGALAKDIARRSKTFNPGAGLPTDKKRGGPSPGDVEAIKNAIANASTLAEVERLKGLLQ
SGQIPGRERRSGPTDDGEEEMEEDIVTNGS

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FIGURE 1143A

CGGCCCGCGGTAGGCGGTGGCGACTCTGCCCGCTCCCGTTTCGGCGCGGTGACCGAGCGCCCGGGAGGCTCGAG
GACCGCATCGTGTGCCGTTTGCGCCAAGCCCGGTCTCGCGCGCCATGGCCCCAGTGCAGCTGGAGAACCACCAGC
TGGTCCCGCCCGGAGGCGGCGGGGCGAGCGGCGGACCCCGTCAGCCCCAGCCCTCTCCCCGGGAGCCG
CCGTGGCGGCGGCCGCTGCAGCTGCGGCTAGCCCGGGCTACCGGCTGAGCACCTCATTGAATTTCTGCTGCACC
GGGCCTACTCGGAGCTTATGGTGTGACGGACCTACTGCCAAGGAAATCTGATGTGGAAAGGAAAATAGAAATAG
TGCAGTTTGTAGCCGACACGCCAATCTTCGTTTCGATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGGCA
AAGTGGAAAAATGTGCGATGATTTCAAGCTTTTATAGTCAGCAAGCCATCCTGTTTGTGGACACTGCTGATCGCC
TGGCCTCGTTAGCTAGAGATGCTCTGGTCCATGCACGCTGCTTAGTTTTGCCATCCCATATGCCATTGATGTAC
TAATACTGGATCTTACCCACGGCTGCCAACCTGCATTAGGGATAAAATTATTCTCCAGACCCAATTACCAAAA
TTGAAAAACAAGCCACACTCCATCAGCTGAATCAGATTCTTAGACATCGGCTTGTAACCACAGATCTTCCTCCTC
AGTTAGCAAACTTACAGTTGCAATGGCCGGGTGAAGTTTCGTGTTGAAGGAGAATTTGAAGCCACCTTGACTG
TGATGGGAGATGACCCTGATGTTCCATGGCGTCTTCTCAAGCTAGAAATTCTAGTTGAGGATAAGGAAACAGGAG
ATGGGCGAGCTTTGGTTCATAGCATGCAATCAGCTTCATCCATCAACIGGTGCAGTCTAGGCTCTTTGCTGATG
AGAAACCTCTTCAGGATATGTACAACAGCTACATTCTTTCTGTTTATCACTTCAGTTAGAAGTGTTACATTCCC
AAACTCTAATGTTAATCCGAGAACGGTGGGGAGACCTTGTGCAGGTGGAAAGGTATCATGCTGGAAAGTGCTCT
CCCTTTTCAGTTTGAATCAACAGGTTCTTGGGAGAAAACTGGAACAGCATCTGTTACAAAGTTACAATTAATA
TTGATGAGAAATGATGTCTCCAAGCCTTTACAGATTTTTCACGATCCTCCTTTGCCAGCTTCTGATTCCAATTAG
TAGAAAGAGCCATGAAGATCGACCATTATCAATAGAAAACTCCTGATTGACAGTGTCCATGCAAGAGCTCATC
AGAAGCTCCAAGAACTGAAGGCCATTCTTAGAGGCTTCAATGCCAATGAAACTCTTCATAGAGACTGCACTCC
CAGCTCTTGTGTTCCATCTTGGAGCCCTGTGGTAATTCAGAGTGTCTGCACATTTTGTAGATTTACATTCTG
GAATGTTTCAATTGATGCTTTATGGACTTGACCAGGCCACTCTGGATGACATGGAGAAGTCTGTGAATGATGATA
TGAAACGAATCATACCCTGGATTGAGCAACTTAAGTTTTGGCTTGGACAACAGCGTTGCAAGCAGTCTATAAAAC
ATCTGCCTACGATAAGCAGTGAAACATTGCAGCTTTCGAATTACTCAACTCATCTATTGGAAACCTTTCTAAGA
ATAAACTGTTTCAATAAACTTACCCGCCTTCCACAATACTACATTGTTGTGGAGATGTTGGAGGTTCCCAATAAAC
CCACACAAGTGTGTAACAAGTACTACTTTATGTCTGTGAATGTGCAGATCGTGAAGACAGCCCTGCAATGGCAT
TGCTGCTGCAGCAGTTCAAGGAAAACATTGAGACTTGGTTTTTCGTACAAAACCGGGAAACAGACCAGAACCA
ATGCCAAGCGCAAGTTGTCTGATGATCCATGTCCAGTAGAATCCAAGAAAACAAAACGAGCAGGAGAAATGTGTG
CCTTCAATAAAGTTTTAGCCACTTCGTGCTATGTGTGATACAAATATGCCATTTGTAGGACTTCGGTTGGAGT
TGTCGAATCTGGAGATTCCACATCAAGGAGTGCAAGTGAAGGTGATGGCTTCAGCCATGCAATTCGCTTATTAA
AAATTCCTCCCTGTAAGGGTATACTGAGGAAACCCAAAAGGCTCTGGACCGCTCTCTTCTTGATTGCACTTTC
GATTACAAGGTAGAAATAACCGCACTTGGGTAGCAGAGTTAGTGTTCGAAATTGTCCACTTAATGGCACTTCTA
CTAGGGAGCAAGGACCATCCCGGCACGTTTACCTGACATATGAAATCTGTTGTCTGAGCCTGTTGGTGGTAGAA
AGGTGGTTGAAATGTTTCTTAATGACTGGAATAGCATTGCACGATTATATGAGTGTGTGTTGGAATTTGCACGTT
CTCTACCAGACATACCTGCTCATCTAAATATTTCTCAGAAGTTCGTGTTTATAATTACCGAAAACCTTATCTTGT
GTTATGGAACCAACCAAGGGAAGCTCAATTAGTATCCAATGGAATTCGATCCATCAAAAATTCACATTTCTTTGG
GAACTGTTGGCCCAAACTCAGGTTGCAGTAACGTGCACAATACCATTTCTCCATCAGCTTCAAGAAATGTTCAACA
AAACACCAAAATGTGGTTTCAAGTTATTACAGGTAAGTTTGATACTCAGGCTCCATTAAATGCCATCAACAACTCC
CCACTGTGCCGATGTTGGGCTTGACCCAGAGAACCAATACTGCCTACCAAGTGTCTCCATTCTGCCACAGTCGT
CCACCCACATCAGACTGGCCTTCAGGAACATGTATTGCATTGATATATACTGCCGAGTCGAGGTGTTGTGGCAA
TACGGGATGGTGCCTATAGTCTTTTGTATAACAGCAAACTAGTTGAAGGTTTCTATCCTGCACCAAGGACTAAAGA
CGTTCTGAATATGTTTGTGACAGCAATCAGGATGCTCGAAGAAGGTCTGTAAATGAGGACGATAATCCCCCTT
CTCTATAGGAGGAGATATGATGGATTCTTTAATATCGCAGCTCCAGCCACCACCCAGCAACAGCCATTTCCAA
AGCAGCCAGGAACATCAGGTGCTTATCCTCTTACTTACCCCCCTACATCTTATCATAGCACAGTCAATCAGTCTC
CCTCAATGATGCACACACAGTCTCCAGGAAATCTGCATGCTGCCAGCTCCCCAGTGGGGCTTTGAGAGCCCCAT
CACCAGCGTCATTTGTTCCAACCTCTCCCCATCCTCGCATGGAATCTCAATAGGACCAGGGGCCAGTTTGTCTA
GTCCACATGGAACCTTGACCCTAGTTCCCATACACTATGGTGTCAACAGTGGACGAGCAGGGAAGTGGCCAG
GATCTCTCAAGTGTCTGGCCCCCTACCCAGCAGCAGCATGCCTGGAATGTCAACAGCCAACCCCTCACTACATT
CTCCGGTTCCAGATGCTTCTCATTCCCTCGAGCTGGAACAAGTTCTCAAACAATGCCAACAAACATGCCTCCAC

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FIGURE 1143B

CTCGTAAACTACCTCAGCGCTCTTGGGCGGCATCCATACCTACCATCCTCACTCACAGTGCCTTGAACATTTTAC
TGCTGCCCTCTCCAACCTCAGGCCTTGTGCCCGGCTGGCAGGTAGTTACCTTTGTTCTCCACTTGAGAGATTCC
TTGGATCAGTCATCATGAGACGACATCTTCAAAGAATTATTCAACAAGAAACGCTGCAGCTGATAAATTCTAATG
AACCCGGAGTGATCATGTTTAAAGACTGATGCACTGAAATGCAGAGTAGCTCTTAGTCCCAAAACCAACCAACGC
TTCAGCTAAAATTGACACCTGAAAATGCAGGACAGTGGAAACCTGATGAACTTCAAGTTTTGGAGAAATCTTTG
AAACAAGAGTTGCAGGACCACCATTAAAGCTAATACGTTAATAGCCTTCACCAAGCTATTAGGAGCTCCTACAC
ACATCCTCAGGGATTGTGTGCACATTATGAAGCTGGAGCTGTTCCTGACCAAGCAACACAGCTAAAATGGAATG
TTCAGTTTTGCCTGACGATCCCTCCAGCGCGCGCGGATTGCACCTCCTGGGACGCCTGTGTGGTGCTGAAAT
CCAAAATGCTATTTTTTCTTCAACTAACTCAGAAAACATCGGTCCCTCCCCAAGAACCTGTTAGTATTATAGTTC
CAATCATTTATGACATGGCTTCAGGTACAACCCAGCAGGCAGACATTCCCAGACAGCAGAATCTTCTGTTGCTG
CTCCCATGATGGTCAGCAACATTCTGAAGAGGTTTGAGAGATGAATCCACCAGACAAGGTGAATGCACAATAT
TTGCAGCTGTTTCGTGATTTAATGGCTAATCTTACACTGCCCCCTGTTGGGCGTCCATAGACACTATTGTTTTTAA
ACCAGGAAGGCTGACAGATGAGACAACAAAAAAATCTGAATTCAGCCTTCAGTTTAAAAAAGGAAAGGACTTT
TTTTTTAACTTTAAGAGCTAAATATTCTAACTGGCAAAAATTTTCAGGGTGCACCTCTTTCATCAAAATGATC
ATCCATCTTTTGTATAATGAATGTATAGTGTGTTTAAATGGGACACATTTCAAAGGAAATAAATCAGTGTCCG
TTTGCCAGTAATAAATTTAATATTCTGTTTTATACTATAAGTTATGAAAATGCCAACTTGTTTTATTAAATTGT
TTTCTTATGTTTTGGGTGTAATAGTCCTTTTTTGGTTTTTGTGTTTTTAAAGGCAGGTCTGTCATTTTTGAA
TACTGTAAACTGTGATAAACTTTATATTGAAGCTGATTTTAAATATGACCGCTTTGAATCCTTACATGAAATGT
TCTGGGAGTTGTTATAAACACACCCCAAGGAAGCAATTTTAAATAAACTAGGTCAAAAACAAAACAAAACAGTG
ACACTCACTTGTGTGTATATAAACTCTAGAGACATCTTAGGCCCTCCCTTCATCTTTAACCTGGTGGATGGAGCC
AGTTATTAATTTATAATAATACATGTCTGAAATTTGACCAAAAACATCTTCTTTATGTCAAGGTTAATATATTTT
CTTCAGACATTCCTAACTGACTAGTGGTTAACATTTAGCACCTTGGTGTCTTTCAATATATAGGATTTGGGTG
AAAAATAAGGAACCTTAGTCTTTGAGAAGGGACAGTATGTGGTTCGTATTGATCAAGGATCCCAATAATGCAATC
ATTCTCATCTGTTGAGGATGTGGGAACCTTTCTGTGAGGAAAATTTAGTTTACAGAATACTTCTGCATACAACAT
TAATTAGGAAACAAAGAACTTTAATGCTGTACCTCTGCATGAAGTTTCTGTGAGCTTTCTTTATCTTGCTTAACT
TATCCTCCTTTCCCTCCCAACAAATGGGATTGTTCTAAACAATTTCAATTTAATTCATTGTCAACAAAACGA
TAGAATGTTTTGCTTGGAAGAAACCTGGTCCATTCCCTCATTGTGAAGAATCCCGAATCCTGGGCCTGTCCAGG
GTCAAATGGAGTTTTTGGTATTAATACATCTCTGCAGGGTTTCTTTTTGGAGCACTGTGCTGTCTTTCCTAGTCA
GTCAGGACTTTTTTAAAGCTTCAAAGAACATGGTCTGATGCAAAGGTCTTCTACCGACTTCATGGTATTTAGGAA
AAATTTTTAAGTGATAATACCATGCCGAGTTACCTGGTCACTGTAATACTGGTCTCCATTAAATGTAGATGCT
TTGTCTAATCCACTTCAAGATGATTTAATTGAGCTTCTATAACTATCAACTATCAAATTCAGTTTCAAGTATC
TCACTGTACCTATATCATATCTGTTCTCACTTTGTTTGATTCTCCACTCATTTTCAATCAGAGTTGAAGCCTTC
TTTGCCCTTTCTTCTTTGCTTATTTCTGCCTTCATCTCCCACTTCTCACCCAACCTCTGCCACTGTTTCAGGAGCAG
TTGACTAACTTTTATCCTTCCCTTAACTTAATCTTTTTATCCTTCTGTTTTTAGTCTTACAGTGGTAATCACA
TCAGTTTGGCAATCTAAGATGTCTTTATCAAGGGTCAGCCCTTTTCTATTTGGAGCTGAATCTTTCTTTTCATGT
AGAAATCTACATGTATATACAAGAAATGATTTTTATCTGCAGGATAATATTGTTTCAAATAATTTTATTAGAG
TTAACTTTTTAGGTATTTTCCCTTTTAAATGTGGTTTTGAAATGTTAATTGCATTTTACACATGATGCATTCACT
GGACACTCTTTTTTCTAATTATAACTCATCTCTGAATGCATTGTGCCAATCAAGAGTAAGATAGGATTCACTGC
GCAAAATTTGCTTTTGATGCTTATTAAGAGTAAACCCATGAATTTGAATTTTATATTATGCTTGGTACTTGGAA
TTGATATATACCTTATTAAGCTTGAAAACATTTAGCATTGTAATAGTAAGTTTCATCACAAATCATGTCTTTTG
CCTCTTTTGTACCCAGGTTTCGATCAAGGGGACTGGATGCCCAAGTGATTTTCTCTAATAATCGGGTTGGGACTT
AACTTTAAGGTGTTTTCAATGTGATTTTAGTATTTACAGTAATAAATAAAATTTATACAAAGTTTCAGAGAACTA
CCAACCTCTAGTTAATTTTGTATGAAGATGTTTTCAATTAATAGTCTGGTTTTAGTATTAATTTAACCTTGAATAA
GAAATTGGTCTGATTTGCCACCTTCATTTTTCCATCTGCTGAAATGCCATTTCAGAATGTATAAAGTACTTTC
AGAATTAGAAGAAAAGTGAGAGCTTCAGCAGAACGTGTCAAGTCGCTAATAACAGGAGTCGAACCTTATGTTTGA
AAATTAACCTGAGTGAGTTAAGTGCAAGCATAAACTAAAATTTATATGACTTTGAATTTAAGAACCTAATAACT
GTGTTCTAATTAACACAGTAATCTGTTTCAGCCAAAGGATACTAACAGCCATTCTTTGGACTGTGGTTAATTTGAT
AACTTCAAGAAGTTATAACTTTGCTACCCTGGATTCTGATGCAATTTCAATATAAAAAGTTGTTCCCTTCATAGT

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FIGURE 1143C

TTTTCCCCCAAAGAAGTGCCTATTACATTTTACCTTAATGTTTATTTATCATCCAAGTGTCTTGATATAAAA
TCAGTATACAGAAAATTTTAAGAGAACTTACATTCAAGGGACATAGAGGGAAAATGTTAATGTGTATTTTATTGT
TTCTTGTTGGAATTTTTTTTTCATTTCGGTTTGAGAATGGACAGTGTGTCTAAGGATGTGATTTAAATTTACTTAGG
ATGGATTTAGCATTGAGGTTATTAAGACAAAGTTAGCAGAGGCCAGCCAGCACTGTGCTGCACAACTCCAGGAAC
TCCATGGTATGCTCACAATTTTCTGCAAGTTGCCTCCACTTCCAAGTGGCCAGTGATTTGTTAAAATACCTTGCC
CAAGAATATAACTGATTGATGAAAGGGCATATTTAGGTCAATATAAAATAATAGCAAGTATTTACTGAGAGCTTA
CTGTGTGCTAGGCATTTTCTTAATATTTCAATGTGTATTTAATCCTCACAACAACCCAATGTGGTAGGTTATTGA
TATCCTCTTCTTAAAAATGAGTAAATGGAGGCCAGAGAAATGTAATTTGCCTGAGATCAAATTAAGGTTGCTTA
AGATCAAACCTGCTAAGAAGGGGCAGTTTGAGTCTGAGCTAGTGTCTCCTAAACACTGGACATTTTGTGTGAACC
ACAGTCGGGAAGGTTTAAATGTTTAGACTCTTTCCTCAGAGGCTTTTAACTACACACAATTTTGACATGTTTCCA
AGCTCAGAAAGCTCATTAAAACAACTAAACTG

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FIGURE 1144

MAPVQLENHQLVPPGGGGGGSGGPPSAPAPPPPGAAVAAAAAASPGYRLSTLIEFLHHRAYSELMVLTDLLPR
KSDVERKIEIVQFASRTRQLFVRLALVKWANNAGKVEKCAMISSFLDQQAILFVDTADRLASLARDALVHARLP
SFAIPYAIDVLTGSPRLPTCIRDKIIPDPITKIEKQATLHQLNQILRHRLVTTDLPPQLANLTVANGRVKFR
VEGEFEATLTMGDDPDVPWRLLKLEILVEDKETGDGRALVHSMQISFIHQLVQSRLFADEKPLQDMYNCLHSFC
LSLQLEVLHSQTLMLIRERWGLVQVERYHAGKCLSLSVWNQQVLGRKTGTASVHKVTIKIDENDVSKPLQIFHD
PPLPASDSKLVERAMKIDHLSIEKLLIDSVHARAHQKLQELKAILRGFNANENSSIETALPALVVPILEPCGNSE
CLHIFVDLHSGMFQMLYGLDQATLDDMEKSVNDDMKRIIPWIIQQLKFWLGQQRCQKQSIKHLPTISSETLQLSNY
STHPIGNLSKNKLFIKLTRLPQYYIVVEMLEVPNKPTQLSYKYFMSVNAADREDSFAMALLLQQFKENIQDLVF
RTKTGKQTRTNAKRKLSDDPCPVESKKTKRAGEMCAFNKVLAFVAMCDTNMPFVGLRLELSNLEIPHQGVQVEG
DGFSAIRLLKIPPCGITEETQKALDRSLDCTFRLOGRNRTWVAELVFANCPNGTSTREQGPSRHVYLTYE
NLLSEPVGGRKVVEMFLNDWNSIARLYECVLEFARSLDPDIPAHNIFSEVRVYNYRKLILCYGTTKGSSISIQWN
SIHQKFHISLGTVGPNSGCSNCHNTILHQLQEMFNKTPNVVQLLQVLFDTQAPLNAINKLPTVPMGLTQRTNTA
YQCF SILPQSSTHIRLAFRNMYCIDIYCRSRGVVAIRDGAYSLFDNSKLVEGFYPAPGLKTFLNMFVDSNQDARR
RSVNEDDNPSPIGGDMMSLISQLQPPPPQQPFKQPGTSGAYPLTSPPTSYHSTVNQSPSMMHTQSPGNLHAA
SSPSGALRAPSPASFVPTPPSSHGISIGPGASFASPHGTLDPSPTYTMVSPSGRAGNWPQSPQVSGPSAARMF
GMSPANPSLHSPVEDASHSPRAGTSSQTMPTNMPPPRKLFPQSWAASIPTILTHSALNILLPSPTPGLVPGLAG
SYLCSPLERFLGSVIMRRHLQRIIQQETLQLINSNEPGVIMFKTDALKCRVALSPKTNQTLQLKLTPEAGQWKP
DELQVLEKFFETRVAGPPFKANTLIAFTKLLGAPTHILRDCVHMKLELFPDQATQLKWNVQFCLTIPPSAPPIA
PPGTPAVVLKSKMLFFLQLTQKTSVPPQEPVSIIVPIIYDMASGTTQQADIPRQONSSVAAPMMVSNILKRFAEM
NPPRQGECTIFAAVRDLMANLTLPPVGRP

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FIGURE 1145A

GGGGCACTGAGGAGCGGGCGCCCGGGGGCAGCGAGGAGCCCGATGCAGGGTTCTGCGCGTCATTTCCGGTCCCGC
GGGCGCCCCGTGAAGCCACCTGGATCCGCCAGCGCTGTGCCACTCCCCAGTGCCGAGCTCCGAGCTGTCTCCGC
GGCCTCGCGCCCCGCCCTCCACCGCGCACCTCTTAGGCCCGCCCGCCAGCGTCCCTTTGTTGTGAAGGCGCCG
GGGCTAGCGCTATGCTGCGGCGGAGACTGCATCAGGCTCTCGCGTCTGCTTCTGCGCTTTGCTGGGAGAGGC
CCTGGTGGCCTCGTTCTGGCGCCCGGAGTCCCTGCTGCGGCCCCACCCCGGGCGGTACGGTGACCCATGCTG
CCCAGCCTGGAGGTAAAATCGTTCTGGCTGTGGCTTCAGCATGTCTGCTCTCGGTGAAAACCCAGCACTGGAAG
AGCTGGTTCTGGCTCCGAAGAGAAGCCGAAAGGCAGGTGCGCTCTCAGCTGGGGCTCTCTGTTTGGTCACCGAA
GTGAGAAGATTGTTTTTGCCAAGAGCGACGGCGGCACAGATGAGAACGTACTGACCGTCACCATCACGGAGACCA
CGGTCACTCGAGTCAGACTTGGGTGTGTGGAGCTCGCGGGCGCTGCTCTACCTCACGCTGTGGTTCTTCTTCAGCT
TCTGACGCTCTTCTCAACAAGTACATCCTGTCCCTGCTGGGAGGCGAGCCAGCATGCTAGGTGCGGTGCAGA
TGCTGTCCACCACGGTTATCGGGTGTGTGAAAACCCCTCGTTCTTGTGTGTTGTATCAGCACAAGGCCGGCTTT
CCTACCCACCCAACTTCTTATGACGATGCTGTTTGTGGGTCTGATGAGGTTTGCAACTGTGGTTTTGGGTTTGG
TCAGCCTGAAAAATGTGGCGGTTTTGTTTGTGAGACGGTGAAGAGCTCCGCCCCATCTTCACGGTGATCATGT
CTCGGATGATTCTGGGGGAGTACACAGGGCTGCTGGTCAACCTCTCCCTCATCCAGTCATGGGCGGGCTGGCGC
TGTGACCGCCACTGAGATCAGCTTCAATGTCTGGGGTTCTCGGCCGCACTGTCCACCAACATCATGGACTGTT
TGCAAAATGTTTTTTCAAAAAGCTGCTCAGCGGGGACAAATACAGGTTCTCGGCCCGGAGCTGCAGTTCTACA
CCAGCGCCGCTGCGGTGGCCATGCTCGTCCCGGCCGGGTTTTCTTTACGGACGTCCAGTGATCGGGAGGAGCG
GGAAGAGCTTCAGCTACAACCAGGACGTGGTGTGCTGCTTCTGACAGACGGAGTCTGTTCCACCTTCAGAGCG
TCACGGCGTACGCCCTCATGGGGAATCTCCCGGTGACTTTACGGCTCGCCAGCACCGTGAAACATGCCTGT
CCATCTGGCTCAGCGTAATCGTTTTTCGGCAACAAGATCACCAGCTTGTGCGCCGTGGCACAGCCCTGGTGACCG
TTGGGGTCTGCTCTACAACAAGCCAGGCAACACCAGCAGGAGGCGCTGCAGAGCCTGGCTGCAGCCACTGGCC
GGGCCCCAGACGACACAGTGGAGCCGCTGCTTCCACAGGACCCAGGCAGCATCCCTGAGAGCAGGAAGCTGCCA
GCTGCTGCTGCTCTCGTGACACTGCATCCCCAGAAATGGGACGGGACGCCCTCTCCATGCCCCTGCTGGGGTG
CAGGACATGGGGAGCTAAGTTGGCCATTGCCTGCGGCTTTCTCGGTTTGTGGTGAAGACCAGCAGAACTCAA
CTGGGGATTCCAGGTATCAGCTTCTGGAGTAGACACCAGACCAGTAGCTGACTGTGTCCGCCGAGCCCCATCCCC
GTGTAATGTGAAAACAGCCTCTGAGGCTCCCATGCTGGGGGTGCCACTTCTCTCTGGGCACACCCACAGGGTC
CACCGGGAGCCAGAGGTGGGTCCAGTGCCAACGAGAGCCGCTCCCTGCCACAGCCAAGAGGCCCTCGGCTTCCC
ACACCAGCCATCGAAGGCCCTGAGGCCCTGACCGGCGGCAGACTGGCCCTGGGCATGAGGCCACAGAGCAGGGC
CGAAGGGAGGGGACAGAGGGCCCTGGAAGGAAGGGTCTCCTGCTGCCACGGTGGGCACTCAGAATTTCTCCAC
CTGACCCAGGGCTGTGGGCATCCTCAGACTATCCAGAGGCATCGCAAGCCTCAAGCTGCAGCATTGCACGGCAC
TCAAGGGCTATGACCACGGAGGCCGTTCACTCGCTTCTGTTTAGAGGAAGGCCCTTACCTCTTCCACACCTGCT
CCTCCTATCCCTTCCACACCTGGGCTGCATGAGCTCCCCGCAACCCAGGGCACCTGCCCTCCTACCTGTGGG
GGTTTCCAGCCCTGAGGTTGAGGACAAACCTCTCGTGTTTAACTTGGGAGGAGATGTGTACGTTTCTTTCTTT
TTGGACTCTGAGTATGAGGCAGGCTGTTCTGAGGTCCCCGTGGGGTGAGCCTGTCTGTCTCCCTCAGAGCCAC
CGTTCCCTATCATCATCTAGCACCTGTCCGGTTCCCCACGTGAGCCTTGGGCAGGACGCTGCAGTGTGATGGTTT
GGGTTACGTGCGGTTTACCTGGGCGCCGTCCTTGCTGAAAAAGGAAACGTCCACACTGAATGTTTCTGGGGCGCG
TGGTGTGTGTCAGGCGCCACCTGTCCACTCTCCCAAGGGACAGTAGTACGGCACACTGGGGCCACCAGCCA
GCTCAACTCATCCTCCTGTGTACGCACCCCGAGGGCGCAGGAGGCCTGAGGAGTGGCTACTGGAGCCGTGTGT
TAGGCAGAGGCTTCTGACCATGTCTGAGCTCTTACCCCAATCTCGCAACCGGCGGATTCCCATGCCCGGTGCA
GCCTGTTGCCAGCCAGCCTTTGAGACCCAGAGCTCCAGGGCTTGTCAGAGGCAGCATGGGGCTCCAGTGGTCCCG
AGTCTCATTTCCCTGCCTGCTCTTAGGCCTTTGGCACCCATGGTCACTTCACTGGTTTTCCATTTGGCTTCTCA
CCTGGGAAATACAAAATAGCCCTCCTGAAGATAAAATCGTTCAGAAACAGAGCAATAATTCTGACTCATTAACT
TTCTACCTACTCAAAAAGTCTGCCATGATGATGGACCGAAGTGAGGCTTTTAAACCCACAAGTAACCTTTTTAT
TTTTTTGAGACGGTCTTGTCTGTACCCAGGCTGGAGTGCAGTGGCATGATCTTGGCTCGCTGCAGCCTCGACT
TCTTGGGCTCAAGTGATCCACCTCAGCCTCCCATGTGGCTGGAAACCGCAGGCACGTGCCACCATGCCTGGCTATT
TTTTTGTGAGCTGGGCTCTCGCTTTGTTGCCAGGCTGGTCTTGAACCTCCTCGGCTCAAGCAATCCTTCCCACT
CAGCCTCCTGTAGTGTGAGAAATATAGGCGTGGGCTACTACACCTGCTTCAGCCGCTTCTATAAAACCGCTGACC
TGTGTGTGGAGGACAGGCCAGGTGTGTGCTCACTGCGCTGCGAAGATGTTTTGTACGTGACTTCCCTGGGTTT

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FIGURE 1145B

CCATTTCCTTTTTCTGCTTTCCTCAAAAATAATAGAAGACCGGCTGCGGTAGCTCAGGCCTCTAGTCCCAGCA
CTTTGGGAGGCTGCAGATGGCGGATCACAAGGCCAGGAGTTCGAGACCAGCCTGGCCAACATGATGAAACCCTGT
CTCTACCAAAAATACAAAATTAGCTGGGTGTGATGGTGGGTGCCTGTGGTCTCAGCTACTCAGGAGGCTGAGGC
AGGAGAATTGTTTGAAGCCCCAGAGGCGGAGGTTGCAGTGAGCCAAGATCGTGCCATTGCACTCCAGCCTGGGCAA
CAGGGCAAGATTCCCGTCTCAAAAACAAACACTATTAGAAAATGCTCTGGAGGTGGCGGGGAGTTGTGATTTGTG
AGGACAGATTGAAAGCAACTCCCAGGGTGGCCTTGTCCACCTCCCCATCGAGAATATGGCTGCCGGCCTCTTTGA
AGATTGTGGTCTGGCATAAGGAGAGGTGCAGGCGCCTGGTTCCTGAGCACCTTGGAAATTCAGCCGCACAGCATC
TGGTGCCCTCCCCCTCCACCCTCACAAGGAGCTGCCATCCTGTTTGGATTTCTGTTGTGGACCAGAAACAAACG
TTTTTCAAAGGATTAGCAATAGGTTGATTTCCCTGTGTAACGCTGCTCTGGGGCCTCTTCTCATCCTGGCAGA
AGGAGCCTGGAGCCCATGAGGCAGCCAGCACTGTGCCCTTGTCTCAGTCGTGCTGTCCCTCCCTCTCCCTCAGTC
TCTTCTCCATGCCCAAGTCAGTTTCCAGCCGCTGGTCTTCATGGCATTCCAGCACAGCTGGACACCAAGAGGCA
AAACCCAAGGCCTGGCTTGGCCGTGTTAACGATTGTACAGACATTTTTTTAAATAACTTTGTGTAATACTTTTCT
AGAATAGTAAGTTCTTGTGAACTGTACAGATGAGCTTCTAGGAACACACCGGGTGTGGTTACTTCCACTGGGT
GTGTCCATGGTCTGGTCTGTGCCTTTGTAAACAAACAGAACACTTGAACCACCTTCCGAATTGGGTCACTGGCT
TCTTTACATTGATACTTAGAGATTGTCAGCTCTCTAACTTTCAAGGAACTTCCCCTACTGAAAGGCATAAAAAG
GTTAAAAAAGAAAATCCGAGAGTCCCAATTCCCTGTATAACAGCATTAAAATAATCTGCCTGCCTGGAAGATGA
GAACACTGTTGCACAACCCAAAATGTGTTTTTAATTTGTGAAAAATTACCATGGTGAGTCAGACAGTCATTTTAA
ACAGCTGAACAGAGACTATCATCAGCAAATAGAGCTCAGCTTTGTAGCTGCCTTTAAAAATCCTTGTCCCAATCC
GGTGAGCTCTGCTTGCTGCCGCCGCGCTCCTGGGTGATCACTCAGACGGGTGAGTGGGAATAACGGGCCAACAG
ACAGCTTTTTACATGTGTCCAAAGGATGGCCTTTGGAAGCCTGGAAGTATTTCACTGTGGAAGAAGTAAACAA
GAATGACATTCCAGATGGAATAGAAATCTCTCTCTTGCCTTTGACCAACATGGTACTAAGGGGTTTTCTTCTTC
CCAATGTATGTACGTGCCCTGCTGGGGCCTTACTTTATAGAATGAGAGCATCCGAGCTTCCCTAATGAATCTGG
CTAGTTCTGTGTCTGGCTGAGGATACAGGAGTGGGACATCCACTCTCGGATCCCTCAGAGCACAGAAACCTTCAG
CTTTGCTGTCTCTGAAGTATTTCCCTCCAGTTTCCCTGCGGGCCCTATGTTTGAGTTTGATGGCTGCTGGATCCT
CACTCAACGAAAACCTCGGTGGAAGTGTTCGCCCTGGCAGTCCTTTTTTGTGTTTTCCATCTCATTTCCTTC
CATCTGAAAGTGGCATTGAGCTGACTTGCTCATTAGACTGTTACGGAGTCTGAATCTGCCAACGTGGTGTGG
AGGCTCCACCTTGAAAAGGGCCACAGTCAGGGCAACTTTCCCCATACAGGAAAACCTTGAAAATTACATCAACAGT
CTACGTCACAGCCAAATTATATTTCCCTTTATACCAAAACAAACTATGGAGAACTAAAAGTACATCACACAAAACG
TTTATAGTGTGTTGTCATGTGACCTATTTTCACTATTTATATAACTAGATTAGTGCTTTCTAGCAAACGGTTCTGTT
AATTAGCGAGTCACTGTTGATTCTGCTGTGGTGGTAAGTTGATACCGTGTAATAATCCCGTGGATGCCTCCTCG
TTATTTTTGTCCAAACGAAGCAGCCGTGGTAGTGTCTATGATTCTTGCTCAGCAAAGTAAAATAAATGTTA
AATATGG

1275/2682
FIGURE 1146

RYACGGDCIRLSRLLLRFAWERPWWPRSWRPESLLRPHRAVTVTHAAQPGGKIVRGCGFSMSSSVKTPALEELV
PGSEKPKGRSPLSWGSLFGHRSEKIVFAKSDGGTDENVLTVTITETTIESDLGVWSSRALLYLTLLWFFFSFCT
LFLNKYIISLLGGEPSMLGAVQMLSTTVIGCVKTLVPCCLYQHKARLSYPPNFLMTMLFVGLMRFATVVLGLVSL
KNVAVSFAETVKSSAPIFTVIMSRMILGEYTGLLVNLSLIPVMGGLALCTATEISFNVLGFSALSTNIMDCLQN
VFSKKLLSGDKYRFSAPELQFYTSAAAVAMLVPARVFFTDVPVIGRSGKSFSYNQDVLLLLLTDGVLFHLQSVTA
YALMGKISPVTFVASTVKHALSIWLSVIVFGNKITSLSAVG TALVTGVLLYNKARQHQQEALQSLAAATGRAP
DDTVEPLLQDPRQHP

1276/2682
FIGURE 1147

CCCACGCGTCCGCTTTAGTGCGCTCGCCGTCGGCTCTACCTGCGTGCTTTAGCTCCTTCTCGCCTGATCCTTCTG
TCTCTCCCAACCCCGGACACCCGGCTTCGACTGGTTATATCTTCGGTGTTCTTTTCTCTCTTCTTCTTTTCGCGG
TTCAGCATGCAGGAAAAAGACGCCTCCTCACAAGGTTTCTGCCACACTTCCAACATTTGCCACGCAGGCGATC
CATGTGGGCCAGGATCCAGAGCAATGGACCTCCAGGGCTGTAGTGCCCCCATCTCACTGTCCACCACGTTCAAG
CAAGGGGCGCCTGGCCAGCACTCGGGTTTTGAATATAGCCGTTCTGGAAATCCCACTAGGAATTGCCTTGAAAA
GCAGTGGCAGCACTGGATGGGGCTAAGTACTGTTTGGCCTTTGCTTCAGGTTTAGCAGCCACTGTAATACTATTACC
CATCTTTTAAAAAGCAGGAGACCAAATTATTTGTATGGATGATGTGTATGGAGGTACAAACAGGTACTTCAGGCAA
GTGGCATCTGAATTTGGATTAAAGATTTCTTTTGTGATTGTTCCAAAATCAAATTACTAGAGGCAGCAATTACA
CCAGAAACCAAGCTTGTTTGGATCGAAACCCCCACAAACCCCAACCCAGAGGTGATTGACATTGAAGGCTGTGCA
CATATTGTCCATAAGCATGGAGACATTATTTTGGTCTGGGATAACACTTTTATGTACCATATTTCCAGCGCCCT
TTGGCTCTGGGAGCTGATATTTCTATGTAATCTGCAACAAAATACATGAATGGCCACAGTGATGTTGTAATGGGC
CTGGTGTCTGTTAATTGTGAAAGCCTTCATAATAGACTTCGTTTCTTGCAAACTCTCTTGGAGCAGTTCCATCT
CCTATTGATTGTTACCTCTGCAATCGAGGTCTGAAGACTCTACATGTCCGAATGGAAAAGCATTTCAAAAACGGA
ATGGCAGTTGCCAGTTTCTGGAATCTAATCCTTGGGTAGAAAAGGTTATTTATCCTGGGCTGCCCTCTCATCCA
CAGCATGAGTTGGTGAAGCGTCAGTGACAGGTTGTACAGGGATGGTCACCTTTTATATTAAGGGCACTCTTCAG
CATGCTGAGATTTTCTCAAGAACCTAAAGCTATTTACTCTGGCCGAGAGCTTGGGAGGATTCGAAAGCCTTGCT
GAGCTTCCGGCAATCATGACTCATGCATCAGTTCTTAAGAATGACAGAGATGTCCTTGGAATTAGTGACACACTG
ATTCGACTTTCTGTGGGCTTAGAGGATGAGGAAGACCTACTGGAAGATCTAGATCAAGCTTTGAAGGCAGCACAC
CCTCCAAGTGGAAAGTCACAGCTAGTATTCCAGAGCTGCTATTAGAAGCTGCTTCTGTGAAGATCAAATCTTCCT
GAGTAATTAATGGACCAACAATGAGCCTTTGCAAAATTTTCAAGCGGAAATTTAAGGCACCTCATTATCTTTC
ATAACTGTAATTTTCTTAGGGATCATCTCTGTTAAAAAGTTTTCTGTATGTCATGTTATAATTACAGGTCAATTC
TGTTAATATCTTTTGTAAATTTTGCTCTATGTTTGCTCTGAAGGAGGTGAGATTGTGCTACTTTGGGAGATT
ATGTTCTTTTTCATGTCTAAGATTATTTTGATCATGTTTATAATATAATGGTAATTCATTTTTGATGTTTTGT
GAAGAATTTAAATTTAAACGAATGTTCTTAAATCAAGTGTGATTTTTTGCATATCATTGAAAAGAACATTAAAA
GCAATGGTTTACACTTAAAAAAAAAAAAAAAAA

1277/2682
FIGURE 1148

MQEKDASSQGFLPHFQHFATQAIHVGQDPEQWTSRAVVPPISLSTTFKQGAPGQHSGFEYSRSGNPTRNCLEKAV
AALDGAKYCLAFASGLAATVTITHLLKAGDQIICMDDVYGGTNRYFRQVASEFGLKISFVDCSKIKLLEAAITPE
TKLVWIETPTNPTQKVIDIEGCAHIVHKHGDIIILVVDNTFMSPYFQRPLALGADISMYSATKYMNGHSDVVMGLV
SVNCESLHNRLRFLQNSLGAVPSPIDCYLCNRGLKTLHVRMEKHFKNGMAVAQFLESNPWVEKVIYPGLPSPQH
ELVKRQCTGCTGMVIFYIKGTLQHAEIFLKNLKLFTLAESLGGFESLAELPAIMTHASVLKNDRDVLGISDTLIR
LSVGLEDEEDLLEDLDQALKAHPPSGSHS

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FIGURE 1149

CGGCTGCTGCTGCCACTGCTGTGCTGGGGGCCCGGTGCCAGGCAAAAAGCCCTCCACGTTTGAGGGGAGTCATG

AGCCGTTTCCTGAATGTGTAAAGAAGTTGGCTGGTTATGGTGTCCATCATAGCCATGGGGAACACGCTGCAGAGC
TTCCGAGACCACACTTTTCTCTATGAAAAGCTCTACACTGGCAAGCCAAACCTTGTGAATGGCCTCCAAGCTCGG
ACCTTTGGGATCTGGACGCTGCTCTCATCAGTGATTGCTGCCTCTGTGCCATTGACATTCACAACAAGACGCTC
TATCACATCACACTCTGGACCTTCCTCCTTGCCCTGGGGCATTTCCTCTCTGAGTTGTTTGTCTATGGAAGTGA
GCTCCACAGATTGGCGTCTGGCACCCCTGATGGTGGCAAGTTTCTCCATCCTGGGTATGCTGGTTCGGGCTCCGG
TATCTAGAAGTAGAACCAGTATCCAGACAGAAGAAGAGAAAAGTGGGCCAGCATTATCACCTCCAGGACTTTCTC
GTTTTCCACCTTGGCCATCTTCTTCCTTCGTGCTCTCTCCTCTTTAATTCTTTTCTATTCCATCATCTGCCCTT
TTATTCACTTTTAGCCTCTTTTTTTAATTTTAAATTTTAAAGATATGCATACTGAAAAGTATATAACATGTACG
TACAATTTAAAGAATAATTTTAAAGTGAATACTACGTAACCTCCATCCAAGTCAAGAAATTGCCAGCTTCTCGGAA
GCCCCTGTGCTCTCCTTCCCCTACCTGCAACCTCTTCCAGGCTCCCTTTTCCAGCCTTCCCCTTTTTCCCTTTTA
TTTTCATGCCCTTGATTTGACTTGTGTGGTGGGAACATGTGAACATATGAACTTAAACCTGCTGCCCACCCAGAGC
AGCTGTGACCAAGGGCTGCCTCAAGGGGTGTCCACGCAGGTTGGGCTCCTCTCTGCTGCTGGACCAAGACTCT
GAACCTTCCAAGGGACAGGCAGTTCTTCTAAGAAGGGCTCCCCTGTGTGTGAGCAAGACCAGCTCTCCTTCTA
TCTACAGATGCATGAGGGTTGGAAGAGTCTGGGCTGTTTTTAGACCTTCTGGTCAGCTGTATTGTGTAAACACT
TTTGTAAATAAATAGAAAAACCCTCTGCTCTGATCAGTTCTTGTAATTTGACCTCTGCTAAGACAAGAGCATGGCT
GCCTCCTCTGAGCCCTAGGAGAATCACAGCTTTATGCCTGATTGAATACACCATAGTGAGTAGGACAGCTCATGA
CACAGGTCAGCCTGGCTGCCCTCCGGCTCCTTACTGTCAATTTGCTCATTCCCTCTTGATTCTTGAAGTCAAATCTT
CTTTTTTCTACCTTCAAGAGTCTGCGTTCACAACTAAACACTAAGTGCCCTTCTTATTTCTCCTAAAGAAGA
AACAGATTCTTGAGAGAGCAGAGACAAAAAATAGAACTAGGCAGCATAGATGAAACAACATGCATGACATGGGAA
GAAGACAATAAACCCCGAGGAGAATGCACTGGAATGGACAGTTGCTCTTAAACCTACCCAGAGGGCCTCCCC
AGCTGGACCTCATAACAGTGTGTGTATCCAAAAGGCCATTGCTATTTAGCAAAATATTTGTGAGTACTTCTC
CATGCCGGACACTTGGGAAAGAGAAATGAACGACACAGGCAATGCCCTGCTGGGCTTATATTATAGTCA
AGGTAACAGAATCAACAAGCCAACACAAAAATAAGAACTTCAAATAGGGATAAGAACTCTAACAAACACAAGGT
ATTTTGGTCAAGAAGGAATGTGGGGTGGGCAGTGGGGAACGTAACCTTAAATTAGATCATCAGAAAGTCCCTCCCTG
AGGAGATGGATTTTTTTTTTTTGTTTTTTAGAGACGGGGTTTCACTCTGTACCCAGGCTGGGAATTGCAGTGGCAC
AATCCCTCACTGCTGCCTCAACTTCCTGGGCTCAAGTGACCTCCTGCATCAGCTTCCCAAGTAGCTGGGACTGC
AAGTGTGTACCACCACATCCAGCTAACATTTTGGGGGTGGGAAGAGATGGGGTCTTACTATGTTGTCCAGGCTA
AGAGGTGGGATTGTGAGCTGAGACTTGAATGCCAGGAGTTAAATGTCTTAAGATATGGAGCAGCCGTTAGAAAG
GAGGGAGCAGCAACTGGAAGGTAGAATAGTCTTATTCAAGGAATAAGAACTATGTAATCACAGCATGGTGAAGAG
TTAGGAAGTGAAAAA

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FIGURE 1150

MSRFLNVLRSWLVMVSIIAMGNTLQSFRDHTFLYEKLYTGKPNLVNGLQARTFGIWTLLSSVIRCLCAIDIHNKT
LYHITLWTFLLALGHFLSELFVYGTAAPTIGVLAPLMVASFSILGMLVGLRYLEVPEVSRQKKRN

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FIGURE 1151

GCACAGGTGCGGCTCCGGCTTACGGCGGCGACGCGGCGGAGGCGGCGGAGGCCAGAGGCGCTCACCTCCTAGG
AGTCCGACGCGGCGACAGGGCGGTGGGGAATTCACAAAGCTCGTCGAGCTTACCCGGGCACCGAGGCCGAGT
AGGGGATTTGGATGCGCGGGTCCCGGTGGGGTCGGGGCCAGAGGGGTCGCTAGTGCGGGTGTTCCACGGCTGA

TCACGCTTCGTTGGCCCCAGGCGGTGGGCTGCCGGCAGGGCAGGGCGCTGTAGTTGACGGGAGCTGCGGGGACCC
CGGAGACCCGGACGCCCCTCACCGCCCCCTCCCCAGTCCAGCAGCGCTCCGCGGGGATGCCCGTGGTCTCGAC
CCGGTCCGTACGCCCCGGCGGCGCAGGGATCCGCGCCCGGCGCTAAACTGCCCTGGTGTCTCTCTCGTTCTGG
CCCGGGGCTGGCGGGGGAGGTGCAGCATTAGGGGCGCTGAGGTGACACCCGAGAACTTCCAGGGAGAGGGTGC
GCGGGGGGGTGGATTTCCACAGTCCTTCCCGCGGCCCGCGGGGGGGCGGTGTTGGGAGGGCACTGGGGTTAT
CCCAGGCTCGCCGTGGGGTGGGGGACTCCTCCCTTTACTTCCCTCCACCCCTTGCAACCCACCCCCAGGC
TTCCCGTGTCCCTTGTTCTCCCTCTCTCCGGTTAGAGATAGGTGGGTGGCTTTGAGTGGGCGGAGGACTTCAGG
GTTTTAGGGGCTCCCCATTCTAGGTCATGCCTCTTGCTCTCTTCCCTGGCCTGTGTGAGTAAGGTGTGTTCCCT
GTGGTGGACGAAAGTCTGTACGATGGTTGGTGGCATTGGTCCTTAATCCTTTGGGTCTGTTTTAAGGTAAAGTGC
TGAGAGTTTGGGAAGCAAAAATTTCTATTTATTGGATTTCTTTTGGCTTTTCTCTCAAGAAGGAAGTGAAAAAG
AGTCTTTTCTTTTCCCTCTTCCCTCATTGTCATTCTTTGTGAGGTTGTCTGCCTTGTGCTTTTTTGCCCGGAT
TAGTCTTGTTGAAGGATGGAGATTCCCAGGCGTGGAGTCTATAGCTTTTGGCTTCCATTAAAGTAAATCGCTAAC
CTTTTTTTAAGAGAAAGTTAATTTTTGCCTGCAGTCATTCCAGAAAAATAGTGTACACGGACTAGCTGAATTAAT
CCACTTAAATTTGTAACCTAGTTACATATGGTAGATATGTTAACTCCTATCTGATTTTTTTGGATGAACTGTTG
TTTTGTTTTTAAATAGGAGATGAAGTAATGGATTTTTTCCCTCCCTTAAATGGCATAGCTGAGAAAGCCCCGG
TACTACTAATTGAGATGATCTGCTTAAGAGTCTTCATATTCTGAACTCGAAAGGCCTTTATGTTATATTATTGC
TCGCTTTACGCAACTCCAAATTGCTTTCTATTTAAATGAATGTTCTTCTAGTAACTGGTGTAGATTTAAAGA
AATCACTCAAGCTTCACCTTGGTAACTGAACCTCAGTTTAAGATTAAGAACTGATTTT

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FIGURE 1152

AQVRLRLTAATRRRRREARGAHPPRSPTAATGAVGNSQSSSSLPGHRGPSRGFGCAGPGWGRGQRGSLVRVFHG

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FIGURE 1153

GCGAGATCCCTACCGCAGTAGCCGCCTCTGCCGCCGCGGAGCTTCCCGAACCTCTCAGCCGCCCGGAGCCGCTCC
CGGAGCCCGGCCGTAGAGGCTGCAATCGCAGCCGGGAGCCCGCAGCCCGCGCCCCGAGCCCGCCGCCGCCCTTCG
AGGGCGCCCCAGGCCGCGCCATGGTGAAGGTGACGTTCAACTCCGCTCTGGCCAGAAAGGAGGCCAAGAAGGACG
AGCCCAAGAGCGGCGAGGAGGCGCTCATCATCCCCCGACGCCGTCGCGGTGGACTGCAAGGACCAGATGATG
TGGTACCAGTTGGCCAAAGAAGAGCCTGGTGTGGTGATGTGCTTTGGACTAGCATTATGCTTGCAGGTGTTA
TTCTAGGAGGAGCATACTTGTACAAATATTTTGCACCTCAACCAGATGACGTGTACTACTGTGGAATAAAGTACA
TCAAAGATGATGTATCTTAAATGAGCCCTCTGCAGATGCCCCAGCTGCTCTCTACCAGACAATTGAAGAAAATA
TTAAAATCTTTGAAGAAGAAGAAGTTGAATTTATCAGTGTGCCTGTCCCAGAGTTTGCAGATAGTGATCCTGCCA
ACATTGTTTCATGACTTTTAAACAAGAACTTACAGCCTATTTAGATCTTAACCTGGATAAGTGCTATGTGATCCCTC
TGAACACTTCCATTGTTTATGCCACCCAGAAACCTACTGGAGTTACTTATTAACATCAAGGCTGGAACCTATTTGC
CTCAGTCCTATCTGATTCATGAGCACATGGTTATTACTGATCGCATTGAAAACATTGATCACCTGGGTTTCTTTA
TTTATCGACTGTGTATGACAAGGAACTTACAACTGCAACGCAGAGAACTATTAAAGGTATTCAGAAACGTG
AAGCCAGCAATTGTTTCGCAATTCGGCATTTTGAAAACAAATTTGCCGTGGAACTTTAATTTGTTCTTGAACAG
TCAAGAAAAACATTATTGAGGAAAATTAATATCACAGCATAACCCACCCTTTACATTTTGTGCAGTGATTATTT
TTTAAAGTCTTCTTTTCATGTAAGTAGCAACAGGGCTTTACTATCTTTTCATCTCATTAAATCAATTAAACCAT
TACCTTAAAATTTTTTTCTTTTGAAGTGTGGTGTCTTTTATATTTGAATTAGTAACGTATGAAGTCATAGATAA
TAGTACATGTCACCTTAGGTAGTAGGAAGAATTACAATTTCTTTAAATCATTATCTGGATTTTATGTTTTATT
AGCATTTCGAAGAAGACGGATTATCTAGAGAATAATCATATATATGCATACGTAAAAATGGACCACAGTGACTTA
TTTGTAGTTGTTAGTTGCCCTGCTACCTAGTTTGTAGTGCATTTGAGCACACATTTTAAATTTTCTCTAATTAA
AATGTGCAGTATTTTCAGTGTCAAATATATTTAACTATTTAGAGAATGATTCCACCTTTATGTTTTAATATCCT
AGGCATCTGCTGTAATAATATTTTAGAAAATGTTTGAATTTAAGAAATAACTGTGTACTAATTTGTATAACC
CATATCTGTGCAATGGAATATAAATATCACAAAGTTGTTTAACTAGACTGCGTGTTGTTTTCCCGTATAATAAA
ACCAAAGAATAGTTTGGTTCTCAAATCTTAAGAGAATCCACATAAAAGAAGAACTATTTTTTAAAAATTCACT
TCTATATATACAATGAGTAAAATCACAGATTTTTCTTTTAAATAAAAATAAGTCATTTTAAATAACTAAACCAGAT
TCTTTGTGGATACTATTAAAGTAACATTTAAGCCTCAACCTTG

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FIGURE 1154

MVKVTFNSALAQKEAKKDEPKSGEEALIIPPDAVAVDCKDPDDVVPVGQRRAWCWCMTFGLAFMLAGVILGGAYL
YKYFALQPDDVYYCGIKYIKDDVILNEPSADAPAALYQTIEENIKIFEEEEVEFISVPVPEFADSDPANIVHDFN
KKLTAYLDLNLDKCYVIPLNTSIVMPPRNLLELLINIKAGTYLPQSYLIHEHMTDRIENIDHLGFFIYRLCHD
KETYKLQRRETIKGIQKREASNCFAIRHFENKFAVETLICS

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FIGURE 1155A

GCGCCCCGCCCTTTCTCGCCCCCGGAGGTGACGGGGTGAAGCGGGGAACCGAGGTGGGGAGTCCGCCAGAGC
TCCCAGACTGCGAGCACGCGAGCCGCGCAGCCGTCACCCGCGCGGTCACGGCTCCCGGGCCCCCCTCTCT
GACCCCTCCCCTCTCTCGCTTTGCCCTCTCCCCCTCTCCCGGACCGAGCAGTGACTTAAGCAACGGAGCGCG
GTGAAGCTCATTCTCTCTCTCGCAGCCGCGCCAGGAGCTCGCGGCGCGCGGCCCTGTCTCCGGCCCCGA
GATGAATCCTGCGGCAGAAAGCCGAGTTCAACATCCTCTGCCACCGACTCTACAAGTTACTACTATAAACA
ATATCCACCCAACACAAGCAAAGTTTATTCTACTTTGAATGCCGTGAAAAGAAGACAGAAAACCTCAAATTAAG
GAAGGTGAAATATGAGGAAACAGTATTTTATGGGTGTCAGTACATTCTTAATAAGTACTTAAAAGGTAAAGTAGT
AACCAGAGAGAAAATCCAGGAAGCCAAAGATGTCTACAAGAACATTTCCAAGATGATGTCTTTAATGAAAAGGG
ATGGAATACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAAATAAAAGCTGTTCTGAGGGCTTTGTCAT
TCCCAGAGGAAATGTTCTCTTACGGTGGAAAACACAGATCCAGAGTGTTACTGGCTTACAAATTGGATTGAGAC
TATTCTTGTTTCTGATCCTGGTATCCAATCACAGTGGCCACAAATCTAGAGAGCAGAAAATATTGGCCAAATA
TTTGTTAGAACTTCTGGTAACTTAGATGGTCTGGAATACAAGTTACATGATTTTGGCTACAGAGGAGTCTCTTC
CCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAAAGGAACAGATACAGTAGCAGGACTTGC
TCTAATTAATAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCTGTTCCAGCAGCAGAACACAGTACCAT
AACAGCTTGGGGGAAAGACCATGAAAAGATGCTTTTGAACATATTGTAACACAGTTTTTCATCAGTGCCTGTATC
TGTGGTCAGCGATAGCTATGACATTTATAATGCGTGTGAGAAAATATGGGGTGAAGATCTAAGACATTTAATAGT
ATCGAGAAGTACACAGGCCACCTAATAATCAGACCTGATTCTGGAACCCCTCTTGACACTGTGTTAAAGGTTTT
GGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGGTTACAAGTGCTGCCACCTTATCTTAGAGT
TATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAAGGCATGAAACAAAAATGTGGAGTAT
TGAAAATATTGCCTTCGGTTCGGTGGAGTTTGCTACAGAAGTTGACAAGAGATCTCTTGAATTGTTCTCTCAA
GTGTAGCTATGTTGTAATAATGGCCTTGGGATTAACGCTCTCAAGGACCCAGTTGCTGATCCCAACAAAAGGTC
CAAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGTTACTGGAGGAAGGAAAAGGAGACCT
TGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAAATGGCAAGGTGACAAAAGCTATTCATTTGATGA
AATAAGAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCAT**TAG**GCTTTATGACTGGGTGTGTGTTG
TGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGGTTGTGTTTTATGATACATTACAGCCAAATTAT
TTGTTGGTTTTATGGACATACTGCCCTTTCATTTTTTTCTTTTCCAGTGTTTAGGTGATCTCAAATTAGGAAATG
CATTTAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTTAGGGCCCTTTGCCAATAGGTAGTCATTCAATCTG
GTATTGATCTTTTACAAAATAACAGAACTGAGAACTTTTATATATAACTGATGATCACATAAAACAGATTTGCA
TAAATTACCATGATTGCTTTATGTTTATATTAACTTGTATTTTGTACAAACAAGATTGTGTAAGATATATTT
GAAGTTTCAGTGATTTAACAGTCTTTCCAACTTTTCATGATTTTATGAGCACAGACTTTCAAGAAAATACTTGA
AAATAAATTACATTGCCTTTTGTCCATTAATCAGCAAATAAACATGGCCTTAACAAAGTTGTTTGTGTTATTGT
ACAATTTGAAAATTATGTGCGGACATACCCTATAGAATTACTAACCTTACTGCCCTTGTAGAATATGTATTAAAT
CATTCTACATTAAAGAAAATAATGGTTCTTACTGGAATGTCTAGGCACTGTACAGTTATTATATATCTTGGTTGT
TGATTGTACAGTGAAATGCCAAATTTGAAAGGCTGTACTGCAATTTTATATGTCAGAGATTGCCTGTGGCTC
TAATATGCACCTCAAGATTTTAAAGGAGATAATGTTTTTAGAGAGAATTTCTGCTTCCACTATAGAATATATACAT
AAATGTAAATACTTACAAAAGTGGAAGTAGTGTATTTTAAAGTAATTACACTTCTGAATTTATTTTTCATATTC
TATAGTTGGTATGACTTAAATGAATTACTGGAGTGGGTAGTGAGTGACTTAAATGTTTCAATTCTGTTATATTT
TTTATTAAGTTTTTAAAAAATTAAATTGGATATTAATTTGTATGGACATCATTTATTAATTTTAACTGAATGCC
CTCAATAAGTAATACTGAAGCACATTCTTAAATGAAGATAAATTATCTCCAATGAAAAGCATGACATGTGTTTCA
ATAGAAGAATCTTAAGTTGGCTAAATTCAAAGTGCTTGACATCAAAATGTTCTAGAGTGATTAGCTACTAGATTC
TGAATCATACATCATCTGACTAGAGACCAGTTCTTTTGAATGATTCTTTTATGTATGTAGATCTGTTCTTCT
GAGGCAGCGGTTGGCCAATATAGCCCAAAGGCCAAATTTGGACTTCTTTTTATAAATGCAGATTGTCTATGGCT
GCTTTCCCACTACTCCAGCCTAAGGTAAACAGCTGCAATAGAAGCCAAATGAGAATCGCAAAGCCCCAAATGTTT
ATTAACCTGCCCTTTACACAAAATCACACAAAAGTTTCTGATCTCTGTTCTAAGAAAAGGAGTGTGCCTTGCA
TTTAAAGGAAATGTTGGTTTCTAGGGAAGGGAGGAGGCTAAATAATTGATACGGAATTTTCTCTTTTGTCTTC
TTTTTCTCACTTAAGAATCCGATACTGGAAGACTGATTTAGAAAAGTTTTTAACATGACATTAAATGTGAAATT
TTAAAAATTGAAAAGCCATAAATCATCTGTTTTAAATAGTTACATGAGAAAATGATCACTAGAATAACCTAATTA
GAAGTGTTATCTTCATTAAATGTTTTTGTAAAGTGGTATTAGAAAAGAAATATGTTTTTCAGATGGTTCTTTAAACA

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FIGURE 1155B

TGTAGTGAGAACATAAGCATTATTCACTTTTAGTAAGTCTTCTGTAATCCATGATATAAAATAATTTTAAATG
ATTTTTTAATGTATTTGAGTAAAGATGAGTAGTATTAAGAAAAACACACATTTCTTCACAAAATGTGCTAAGGGG
CGTGTAAGAATCAAAAGAACTATTACCAATAATAGTTTTGATAATCACCATAATTTTGTGTTTAAACATTGA
AATTATAGTACAGACAGTATTCTCTGTGTTCTGTGAATTCAGCAGCTTCAGAATAGAGTTAATTTAGAAATTT
GCAGTGAAAAAGCTATCTCTTTGTTTACAACCATAAATCAGGAGATGGAGATTAATTCTATTGGCTCTTAGTCA
CTTGGAAGTGAATTAATTCTGACTTTCTGTCACTAAGCACTTGGTATTTGGCCATCTCCATTCTGAGCACCAAACG
GTTAACACGAATGTCCACTAGAACTCTGCTGTGTGTCAACCCTTAAATCAGTCTAAATCTTCCAGACAAAAGCAAA
TGGCATTATGGATTTAAGTCATTAGATTTTCAACTGACATTAATTAATCCCTCTTGATTGATTATATCATCAAG
TATTTATATCTTAAATAGGAGGTAGGATTTCTGTGTTAAGACTCTTATTTGTACCCTATAATTAAAGTAAATGT
TTTTTATGAGTATCCCTTGTTTTCCCTTCTTAAATTGTTATCAAACAATTTTATAATGAAATCTATCTTGGA
ATTAGAAAGAAAAATGGCAAGGTATTTATTGTTCTGTTTGCCATAATTTAGAACTCACACTTAAGTATTTTGTAG
TTTTACATTCTTTTTAACCCTTCAGTGGAGAATGTCAGCTTTTCTCCCAAGTTGTATGTTAAGTCTATTCTAA
TATGTACTCAACATCAAGTTATAAACATGTAATAAACATGGAAATAAAGTTTAGCTCTATTAGTGAAGTGTAAAA

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FIGURE 1156

MNPAAEAEFNILLATDSYKVTHYKQYPPNTSKVYSYFECREKKTENSKLRKVKEYEETVFYGLQYILNKYLK GKVV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLPIEIKAVPEGFVIPRGNVLF TVENTDPECYWLTNWIET
ILVQSWYPITVATNSREQKKILAKYLLETSGNLDGLEYKLHDFGYRGVSSQETAGIGASAHLVNFKGTD TVAGLA
LIKYYGTDKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV
SRSTQAPLIIRPD SGNPLDTVLKVL EILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIVEGMKQKMWSI
ENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRLSLHRT PAGNFVTLEEGK GDL
EEYGQDLLHTVFKNGKVT KSYSFDEIRKNAQLNIELEAAHH

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FIGURE 1157

CGCGCGGCCCTGTCCTCCGGCCCGAGATCAATCCTGCGGCAGAAGCCGAGTTCAACATCCTCCTGGCCACCGAC
TCCTACAAGGTTACTCACTATAAACAATATCCACCCCAACACAAGCAAAGTTTATTCTACTTTGAATGCCGTGAA
AAGAAGACAGAAAACCTCCAAATTAAGGAAGGTGAAATATGAGGAAACAGTATTTTATGGGTTGCAGTACATTCTT
AATAAGTACTTAAAAGGTAAAGTAGTAACCAAGAGAAAAATCCAGGAAGCCAAAGATGTCTACAAAGAACATTTC
CAAGATGATGTCTTTAATGAAAAGGGATGGAACACTACATTCTTGAGAAGTATGATGGGCATCTTCCAATAGAAATA
AAAGCTGTTCTGAGGGCTTTGTCAATCCAGAGGAAATGTTCTCTTCACGGTGGAACACAGATCCAGAGTGT
TACTGGCTTACAAATTGGATTGAGACTATTCTTGTTTCAGTCTGATCCAATCACAGTGGCCACAAATTCTAGA
GAGCAGAAGAAAATATTGGCCAAATATTGTTAGAACTTCTGGTAACTTAGATGGTCTGGAATACAAGTTACAT
GATTTTGGCTACAGAGGAGTCTCTTCCCAAGAGACTGCTGGCATAGGAGCATCTGCTCACTTGGTTAACTTCAA
GGAACAGATACAGTAGCAGGACTTGCTCTAATTAATAAATATTATGGAACGAAAGATCCTGTTCCAGGCTATTCT
GTTCCAGCAGCAGAACACAGTACCATAACAGCTTGGGGGAAAGACCATGAAAAGATGCTTTTGAACATATTGTA
ACACAGTTTTTCATCAGTGCCTGTATCTGTGGTCAGCGATAGCTATGACATTATAATGCGTGTGAGAAAATATGG
GGTGAAGATCTAAGACATTTAATAGTATCGAGAAGTACACAGGCACCACTAATAATCAGACCTGATTCTGGAAC
CCTCTTGACACTGTGTTAAAGGTTTTGGAGATTTTAGGTAAGAAGTTTCTGTTACTGAGAACTCAAAGGGTTAC
AAGTTGCTGCCACCTTATCTTAGAGTTATTCAAGGGGATGGAGTAGATATTAATACCTTACAAGAGATTGTAGAA
GGCATGAAACAAAAATGTGGAGTATTGAAAATATTGCCTTCGGTTCTGGTGGAGGTTTGTCTACAGAAGTTGACA
AGAGATCTCTGAATTGTTCTTCAAGTGTAGCTATGTTGTAATAATGGCCTTGGGATTAACGCTTCAAGGAC
CCAGTTGCTGATCCCAACAAAAGGTCCAAAAGGGCCGATTATCTTTACATAGGACGCCAGCAGGGAATTTTGT
ACACTGGAGGAAGGAAAAGGAGACCTTGAGGAATATGGTCAGGATCTTCTCCATACTGTCTTCAAGAATGGCAAG
GTGACAAAAGCTATTTCATTTGATGAAATAAGAAAAATGCACAGCTGAATATTGAACTGGAAGCAGCACATCAT
TAGGCTTTTATGACTGGGTGTGTGTGTGTGTATGTAATACATAATGTTTATTGTACAGATGTGTGGGGTTTTGTGT
TTTATGATACATTACAGCCAAATTATTTGTTGGTTTATGGACATACTGCCCTTTCATTTTTTTCTTTTCCAGTG
TTTAGGTGATCTCAAATTAGGAAATGCATTTAACCATGTAAAAGATGAGTGCTAAAGTAAGCTTTTATGGGCCCT
TTGCCAATAGGTAGTCATTCAATCTGGTATTGATCTTTTACAAAATAACAGAACTGAGAACTTTTATATATAAC
TGATGATCACATAAAACAGATTTCATATAAAATTACCATGATTGCTTTATGTTTATATTTAACTTGTATTTTTGTA
CAAACAAGATTGTGTAAGATATATTTGAAGTTTCAGTGATTTAACAGTCTTTCCAACCTTTTCATGATTTTTATGA
GCACAGACTTTCAAGAAAATACTTGAAAATAAATTACATTGCCTTTTGTCCATTAAATCAGCAAATAAAACATGGC
CTTAACAAAGTTGTTTGTGTTATTGTACAATTTGAAAATTATGTCGGGACATACCCATAGAAATTACTAACCTTA
CTGCCCCCTTGTAGAATATGTATTAAATCATTCTACATTAAAGAAAAATAATGGTTCTTACTGGAATGTCTAGGCACT
GTACAGTTATTATATATCTTGGTTGTTGTTATGTACCAGTGAAATGCCAAATTTGAAAGGCCTGTACTGCAATTT
TATATGTCAGAGATTGCCTGTGGCTCTAATATGCACCTCAAGATTTTAAGGAGATAATGTTTTTAGAGAGAATTT
CTGCTTCCACTATAGAATATATACATAAATGTAAAATACTTACAAAAGTGG

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FIGURE 1158

MNPAAEAEFNILLATDSYKVTHYKQYPPNTSKVYSYFECREKKTENSKLRKVYEETVIFYGLQYILNKYLK GKVV
TKEKIQEAKDVYKEHFQDDVFNEKGWNYILEKYDGHLP EIKAVPEGFVIPRGNVLTVENTDPECYWLTNWIET
ILVQSWYPITVATNSREQKILAKYLLETSGNLDGLE YKLHDFGYRGVSSQETAGIGASAHLVNFKGDTVAGLA
LIKYYGTKDPVPGYSVPAAEHSTITAWGKDHEKDAFEHIVTQFSSVPVSVVSDSYDIYNACEKIWGEDLRHLIV
SRSTQAPLIIRPDSGNPLDTVLKVLEILGKKFPVTENSKGYKLLPPYLRVIQGDGVDINTLQEIVEGMKQKMWSI
ENIAFGSGGGLLQKLTRDLLNCSFKCSYVVTNGLGINVFKDPVADPNKRSKKGRLSLHRT PAGNFVTLEEGKGD L
EEYGQDLLHTVFKNGKVTKSYSFDEIRKNAQLNIELEAAHH

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FIGURE 1159

TGCAGCGGTGGTCGGCTGTTGGGTGTGGAGTTTCCCAGCGCCCCTCGGGTCCGACCCTTTGAGCGTTCTGCTCCG
GCGCCAGCCTACCTCGCTCCTCGGCGCCATGACCACAACCACCACCTTCAAGGGAGTCGACCCCAACAGCAGGAA
TAGCTCCCGAGTTTTGCGGCCTCCAGGTGGTGGATCCAATTTTTCATTAGGTTTTGATGAACCAACAGAACAACC
TGTGAGGAAGAACAAAATGGCCTCTAATATCTTTGGGACACCTGAAGAAAATCAAGCTTCTGGGCCAAGTCAGC
AGGTGCCAAGTCTAGTGGTGGCAGGGAAGACTTGGAGTCATCTGGACTGCAGAGAAGGAACTCCTCTGAAGCAAG
CTCCGGAGACTTCTTAGATCTGAAGGGAGAAGGTGATATTCATGAAAATGTGGACACAGACTTGCCAGGCAGCCT
GGGCAGAGTGAAGAGAAGCCCGTGCCTGCTGCGCCTGTGCCAGCCCGGTGGCCCCGGCCCCAGTGCCATCCAG
AAGAAATCCCCCTGGCGGCAAGTCCAGCCTCGTCTTGGGTAGCTCTGACTGTCCTGAACGCTGTCGTTCTGTCT
GTTTCCTCCATGCTTGAGAACTGCACAACCTGAGCCTGACTGTACATCTTCTTGGATTTGTTTCATTAAAAAGAA
GCACTTTATGTAAAAA

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FIGURE 1160

MTTTTTFKGVDPNSRNSSRVLRPPGGGSNFSLGFDPETEQPVVRKNKMASNIFGTPEENQASWAKSAGAKSSGGRE
DLESSGLQRRNSSEASSGDFLDLKGECDIHENVDTDLPGSLGQSEKPVPAAPVPSPVAPAPVPSRRNPPGGKSS
LVLG

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FIGURE 1161

GGGGGGAAACGGAAGTGAGCGGCGGGGTCGACTGACGGTAACGGGGCAGAGAGGCTGTTCCGAGAGCTGCGGAAG
ATGAATGCCAGAGGACTTGGATCTGAGCTAAAGGACAGTATTCCAGTTACTGAACTTTCAGCAAGTGGACCTTT
GAAAGTCATGATCTTCTTCGGAAAGGTTTTCTTGTGTGAAAAATGAACTTTGCCTAGTCATCCCCTTGAATTA
TCAGAAAAAAATTTCCAGCTCAACCAAGATAAAATGAATTTTCCACACTGAGAAACATTTCAGGGTCTATTGCT
CCGCTAAAATTACAGATGGAATTCAAGGCAGTGCAGCAGGTTTCAGCGTCTTCCATTTCTTTCAAGCTCAAATCTT
TCACTGGATGTTTTGAGGGGTAATGATGAGACTATTGGATTGAGGATATTCTTAATGATCCATCACAAAGCGAA
GTCATGGGAGAGCCACACTTGATGGTGGAAATAAACTTGGTTTACTG**TAAT**AGTGTGCTGTTTCATGGAAACCGA
GGGCTGCATCTTGTATAGTCATCTTTGTACTGTAATTTGATGTACACAACATTAAAAGTACTGACACCTGAGA
ATTTCTGCTCAAGTAGTATCAGTGATCATTAAAAATTTGGAGGGGTCTTTGGTTTACAGCCATGTGACAATTAAA
AGCACTAAAGGGAGATCATGTTAAAGCTCTTAATTTATATTAACAGTAGCCTTTGCTTTAAAAAAGTTGTG
CTCATGAATATTATAAAATGATCTACAGGTTTCAATTCACCTGTTTCTAGGTTTTTTGTAAATTTAGTTTTGA
TTAAGCATTATAAGCATTGAGTCTATAAACTTTATAGTAGCATCTTTCAGAATAAACATTTTAATTGATTTC
GTGGCAACTCTCAAATTGATTACAATATGAGATATATCAGTGTGTCCTCATTAACTCATAAGAATAATATTAC
TGTCAGTGTCTATTTTAGGATTATAGTTATTGTTTATTATTTTCAAGTTGAAAAGTAGAAGTCCAAGTTTTG
ATTTTGGTCTGGTCTTTAAGTGAAAAATTAAGCAACCAGTAGATGTAGGTTAACTTTTACTTCATAGACTTAA
TATGTGATTAATATATTGCCAAGCAACACTGTTAAAGAAAAGTAAACTCATTTTTTCTTGTCTTAATTTATAT
ATTACAAGATACTGTAAGGTATTCTTTATGAAGTTGATATATAAAATTTACATTTTGAACATTAGTGAATGG
ATCATCTTTTACAATTAAGTATATTTTGATTATCAGTTTCTTAGCAAAAAAAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 1162

MNARGLGSELKDSIPVTELSASGPFESHDLRKGFCVKNELLPSHPLESEKNFQLNQDKMNFSTLRNIQGLFA
PLKLQMEFKAVQQVQRLPFLSSSNLSLDVLRGNDDETIGFEDILNDPSQSEVMGEPHLMVEYKLGLL

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FIGURE 1163

CCAGGGCCTGACTAAACCTGGAGACTCGGGTGGCCGAGGGGCTTCATACCAGCTGAAGAGCGACAAGCCGCTGGC
AGCCGCGGATCTCACCGCCGCTCAGGGTTTTAGAACTTCAGCCATAAAAAATCGGCAGAAATTTTCCTTGATCATA
TCGGTGGTACCCGCTCTGTTTTCTGTGCAAACTGTGATACGATCCTGACCAACCGCTCAGAACTCATCTCCACTC
GTTTCACAGGCGCCACTGGCAGAGCATTCTTTTTAAACAAGGTAGTTAACCTGCAGTACAGCGAAGTTCAAGATC
GGGTCAIGCTCACTGGCCGCCACATGGTTCGAGATGTGAGCTGCAAAACTGCAATAGCAAAGTTGGGATGGATCT
ATGAGTTTGCCACTGAAGACAGCCAGCGATATAAGGAAGGCCGCTGATCCTGGAACGTGCTCTAGTTTCGAGAGA
GTGAGGGCTTTGAGGAGCATGTACCATCTGATAACTCTTGAAGATACAGAGAGAAATCCATCTTTTCCCAGGTCT
CCTTCACTGAAAACAAAATCTACTTACATACACTGTCACCTTAGCATCAGAGTCGGATTAATGAACTGCGGAAC
AAGAGTTGTGAGAACTAAGATGGAACCTTTCTTTCTTTCTTTCTTTTAAATTTTGTATTTTCCATCCA
ACAGCAGTGTGTAGAGAGAATATTATGCAGATGCCGTTAATTTTTTACCCTATGTTTACATCTTGAGGCAGCAGA
GTCTGTCTGCAGCTATGTGGTGAAGCTATGTAAGGAAAAAATCTGGGCTGTTAGAGTGAAGAAAGTGTGTTTTATG
TCAATTGTGAAAGGAAATGTTAGGAGTATGGTTTTTAACTTGGGCTTCATTTTAACTTTTTTTTTTAAACCC
AGTTATTTCACTTGATTGCTAGCTTCAGAGAAGAGATCCGAATCTGTGCCAGCGCTAAAGGCTCAGTGTTAGC
ATGGCTTGCTGGCCGGTGTGCCATATTCTTGTGGAGATGAACCGTAGCACCAGAGCCCATCTTCCCTTGTC
GTCTTGGCCCAAAGATGTCACCATTCCTAGTTATTTGTCACCACATAATTGGTGTGATTGGAACCTTTTTCTGA
GATGGGACAGAACTGCTGGGTGTCTTTTTCCATGTAACCTAAGCATAGTAATATAAATAAAGTAATAGTTGGAT
GCTTTTGGTCTGTGTTGCTTTTAAAAACACCTTATAAAAGAGGAGAGTATTGATAAGCAATTTTCATAGTAGT
AAAGTTTTTTTTCATCTCTTAACTAAATTGACCATGCATATAATATTCTTTGTTTAAATGAAAGCATACTGTTG
AAACCCGCGAGTGTTCATTTAGAAAACAGTTGAACAGAATGTCAATGTGCATTCATGCAAAAAACATTTAATCT
GCATCTGTTTGTAGAAAAGGGGAAATGAAGCACTTGTCTAAAAATACTGCTTTACAAAGCATTTTCAGCCTTTCC
CCCTCAGTTTGCATTGATTTTTGACAAGTCTGTAGAGCCTAATAGTTTCCATCAAAGGCCCTAGATCTCTTATT
TAGCATTTTTTTCAGCTCTTCTCTCAGAAGTTCAGCTGTGAAACGAAAACGTACTTTGTACCCCTCACATACAA
AGGGATCAAAATTTGACCTGGTGTATTTTAGCCCCAAATTTATGACATTACACAATATTAAAAATGTAATGTTTC
TTTACCCAACTACTTCTAGATATTCTAGTATTGCTTCTGGTGAATTAATGACGGTAAAAATGGCTAATTAT
TTGAATGAATGAATGGATGGATGTTTTGCATGCTCAATTTCTAGGTCTTTGTCTAGAAAGGAAATTTGCCTCAG
TTGAATTAGTGAATATTTCTGTCGTTGATATTAAAAGTGACTTCTGAGTACAGTTAAGTTCCCTATTGTTGCA
CTGGGCTGTTGGTTAGAAGCATAGGTAAGTAACTGATTAAAGTAGGTATGATACTGCATTTGAAATAAGTGGACACAAAC
TATCCTTTCTCCACCATGGACTCAATCTGAGAACAACAGCATTCATTTCCATTCACTTCCATACTGGCTTTTGAT
TATATGCAGATTCTAGTAGCATGCCTTACCTACAGCACTATGTGCATTTGCTGTCAATAAAGTATATTTTGT
CTTGCAA

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FIGURE 1164

MGRIFLDHIGGTRLFSCANCDTILTNRSELISTRFTGATGRAFLFNKVVNLQYSEVQDRVMLTGRHMVRDVCKN
CNSKLGWIYEFATEDSQRYKEGRVILERALVRESEGFEHVPDENS

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FIGURE 1165

GCGACTCGTCCCGCCTTCTGGGGCACTAGTTTGACTTTGTGATTGGCTACTAGTATCAAGGAATCCCGGCGTGGA
CAGCGCGAGGAGAAAAGATGGCGGCGATGGCGGTGCGGGGTGCTGGTGGGAGCCGCGTGTCCAGCGGGAGGGACCT
GAATTGCGTCCCCGAAATAGCTGACACACTAGGGGCTGTGGCCAAGCAGGGGTTTGATTTCCTCTGCATGCCTGT
CTTCCATCCGCGTTTCAAGAGGGAGTTCATTACAGGAACCTGCTAAGAATCGGCCCGGTCCCCAGACACGATCAGA
CCTACTGCTGTACAGGAAGGGACTGGAATACGCTAATTGTGGGAAAGCTTTCTCCATGGATTTCGTCCAGACTCAAA
AGTGGAGAAGATTTCGCAGGAACCTCCGAGGCGGCCATGTTACAGGAGCTGAATTTTGGTGCATATTTGGGTCTTCC
AGCTTTCTGCTGCCCTTAATCAGGAAGATAACACCAACCTGGCCAGAGTTTTGACCAACCACATCCACACTGG
CCATCACTCTTCCATGTTCTGGATGCGGGTACCCTTGGTGGCACCAGAGGACCTGAGAGATGATATAATTGAGAA
TGCACCAACTACACACACAGAGGAGTACAGTGGGGAGGAGAAAACGTGGATGTGGTGGCACAACCTTCCGGACTTT
GTGTGACTATAGTAAGAGGATTGCAGTGGCTCTTGAAATTGGGGCTGACCTCCCATCTAATCATGTCAATTGATCG
CTGGCTTGGGGAGCCCATCAAAGCAGCCATTCTCCCCACTAGCATTCTTCTGACCAATAAGAAGGGATTCTCTGT
TCTTTCTAAGATGCACCAGAGGCTCATCTTCCGGCTCCTCAAGTTGGAGGTGCAGTTCATCATCACAGGCACCAA
CCACCACTCAGAGAAGGAGTTCTGCTCCTACCTCCAATACCTGGAATACTTAAGCCAGAACCGTCTCTCCACCTAA
TGCCTATGAACCTTTTGCCAAGGGCTATGAAGACTATCTGCAGTCCCCGCTTCAGCCACTGATGGACAATCTGGA
ATCTCAGACATATGAAGTGTGAAAAGGACCCCATCAAATACTCTCAGTACCAGCAGGCCATCTATAAATGTCT
GCTAGACCGAGTACCAGAAGAGGAGAAGGATACCAATGTCCAGGTACTGATGGTGTCTGGGAGCAGGACGGGGACC
CCTGGTGAACGCTTCCCTGCGGGCAGCCAAGCAGGCCGACCGCGGATAAAGCTGTATGCTGTGGAGAAAAACCC
AAATGCCGTGGTGACGCTAGAGAACTGGCAGTTTGAAGAATGGGGAAGCCAAGTGACCGTAGTCTCATCAGACAT
GAGGGAATGGGTGGCTCCAGAGAAAGCAGACATCATTGTCACTGAGCTTCTGGGCTCATTGTGACAATGAATT
GTGCGCTGAGTGCTGGATGGAGCCAGCACTTCTAAAAGATGATGGTGTGAGCATCCCCGGGGAGTACACTTC
CTTTCTGGCTCCCATCTCTTCTCCAAGCTGTACAATGAGGTCCGAGCCTGTAGGGAGAAGGACCGTGACCTGA
GGCCCAGTTTGAGATGCCTTATGTGGTACGGCTGCACAACCTCCACCAGCTCTCTGCACCCACGCCCTGTTTCAC
CTTCAGCCATCCCAACAGAGATCCTATGATTGACAACAACCGCTATTGCACCTTGGAATTTCTGTGGAGGTGAA
CACAGTACTACATGGCTTTGCCGGCTACTTTGAGACTGTGCTTTATCAGGACATCACTCTGAGTATCCGTCCAGA
GACTCACTCTCTGGGATGTTCTCATGGTTTTCCATCCTCTTCCCTATTAAAGCAGCCCATACCGGTACGTGAAGG
CCAAACCATCTGTGTGCGTTTCTGGCGATGCAGCAATTCCAAGAAGGTGTGGTATGAGTGGGCTGTGACAGCACC
AGTCTGTTCTGCTATTATATAACCCACAGGCCGCTCATATACCATTTGGCCTCTAGCCCTGCGTGCCAAGTGTCCA
GAGCCTTGGAAGCAGCTTCAGGTTCTGCTCCTGTAGTACAGAAGGTGCAGTACATCTATGGGCTGTGATTCCCC
CTTGCCCATCAGAGAGGAGCATTTCATCTGCTTTTCTGCTTACATCAAGGTGGGCAAGGGATTATAATTAATT
GCAGGGCTCAAGCCACCAATCTATGAAGACCTCAGGCCAGGGGGTGAGGAATTAGTGTGGATTGGAAGCTACGC
ACTCAGCCTCAAGAACTCCCTGGAATATCCCTGAGAACATGGGGTTTGAACGGATTTTCAGCCTTTTTCTGTTCT
TGTTTTGATGGTTTTGTGTAAGAGGAAATACCAATAAAGTTATAGCCCTTTACTGCCAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAA

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FIGURE 1166

MAAMAVGGAGGSRVSSGRDLNCVPEIADTLGAVAKQGDFLCMPVFHPRFKREFIQEPAKNRPGPQTRSDLLLSG
RDWNTLIVGKLSPIRDPDSKVEKIRRNSEAAMLQELNFGAYLGLPAFLLPLNQEDNTNLARVLTNHIHTGHHSSM
FWMRVPLVAPEDLRDDIIENAPTTHTEEYSGEEKTMMWWHNFRTLCDYSKRIAVALEIGADLPSNHVIDRWLGEP
IKAAILPTSIFLTNKKGFPVLSKMHQRLIFRLLKLEVQFIITGTNHHSEKEFCSYLQYLEYLSQNRPPPNAYELF
AKGYEDYLQSPQLQPLMDNLESQTYEVFEKDPKYSQYQQAIYKCLLDREVPEEEKDTNVQVLMVLGAGRGPLVNAS
LRAAQADRRIKLYAVEKNPNAVVTLENWQFEEWGSQVTVSSDMREWVAPEKADIIVSELLGSFADNELSPECL
DGAQHFLKDDGVSIPGEYTSFLAPISSKLYNEVRACREKDRDPEAQFEMPYVVRHLNHFHQLSAPQPCFTFSHPN
RDP MIDNNRYCTLEFPVEVNTVLHGFAFYFETVLYQDITLSIRPETHSPGMFSWFPILFPKQPI TVREGQTICV
RFWRCSNSKKVWYEWAVTAPVCSAIHNPTGRSYTIGL

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FIGURE 1167

GGCACGAGTGGGAGTACAGGACTCGCCTCCTCAGGGTTCCCTGTGCTGCCACTTTTCAGCCATGGCCACAAGTGA
ACAGAGTATCTGCCAAGCCCGGGCTTCCGTGATGGTCTACGATGACACCAGTAAGAAATGGGTACCAATCAAACC
TGGCCAGCAGGGATTTCAGCCGGATCAACATCTACCACAACACTGCCAGCAACACCTTCAGAGTCGTTGGAGTCAA
GTTGCAGGATCAGCAGGTTGTGATCAATTATTCAATCGTGAAAGGGCTGAAGTACAATCAGGCCACGCCAACCTT
CCACCAGTGGCGAGATGCCCGCCAGGTCTACGGCTTAAACTTTGCAAGTAAAGAAGAGGCAACCACGTTCTCCAA
TGCAATGCTGTTTGGCCTGAACATCATGAATTCCCAAGAAGGAGGCCCTCCAGCCAGCGTCAGGTGCAGAAATGG
CCCCTCTCCTGATGAGATGGACATCCAGAGAAGACAAGTGATGGAGCAGCACCAGCAGCAGCGTCAGGAATCTCT
AGAAAGAAGAACCTCGGCCACAGGGCCCATCCTCCCACCAGGACATCCTTCATCTGCAGCCAGCGCCCCCGTCTC
ATGTAGTGGGCCTCCACCGCCCCCCCCACCCCACTCCACCTCCACCCACTGGGGCTACCCACCTCCCCCACC
CCCACTGCCAGCCGGAGGAGCCAGGGGTCCAGCCACGACGAGAGCTCCATGTGAGGACTGGCCGCTGCCATAGC
TGGGGCCAAGCTGAGAAGAGTCCAACGGCCAGAAGACGCATCTGGAGGCTCCAGTCCCAGTGGGACCTCAAAGTC
CGATGCCAACCGGGCAAGCAGCGGGGTGGCGGAGGAGGCCTCATGGAGGAAATGAACAAACTGCTGGCCAAGAG
GAGAAAAGCAGCCTCCAGTCAGACAAGCCAGCCGAGAAGAAGGAAGATGAAAGCCAAATGGAAGATCCTAGTAC
CTCCCCCTCTCCGGGGACCCGAGCAGCCAGCCAGCCACCTAACTCCTCAGAGGCTGGCCGGAAGCCCTGGGAGCG
GAGCAACTCGGTGGAGAAGCCTGTGTCTCGATTCTGTCCAGAACCCCGTCTGTGGCAAAGAGCCCCGAAGCTAA
GAGCCCCCTTCAGTCGCAGCCTCACTCTAGGATGAAGCCTGCTGGGAGCGTGAATGACATGGCCCTGGATGCCTT
CGACTTGGACCGGATGAAGCAGGAGATCCTAGAGGAGGTGGTGAGAGAGCTCCACAAGGTGAAGGAGGAGATCAT
CGACGCCATCAGGCAGGAGCTGAGTGGGATCAGCACCACGTAAAGGGCCGGCCTCGCTGCGCTGATTCTGTCGAGC
CCATCCGGCGACAGAGGACAGCCAGAAGCCCAGCCAGCCCCAGACTCCAGTGCACCAGAGCACGCACAGGAGCCT
GGGCGCGCTGCTGTGAAACGTCTGACCTGTGATCACACATGACAGTGAGGAAACCAAGTGAACCTCCTGGGTTT
TTTTAGATTCTGCCTGACACGGAACACCAGGTCTGCTCGTCTTTTTTGTGTTTTATATTGCTTATTTAAGGTAC
ATTTCTTTGGGTTTCTAGAGACGCCCTTAAGTCACCTGCTTCATTAGACGGTTTCCAGGTTTCTCCAGGTGAC
GCTGTAGCGCCTCAGCTGGCGGTGACAGCCGGCCAGCGTGGCGCCACCACACCCGAGAGCTGTCCAGGCAC
AGCTCCGTCCCAGCGCTCATGGTGTGAAACTGTCTGTGATGCACCACGGTGTCTGTGTCCACACAGTAATAAA
CGGTTTACTGTCCGCAAAAAAAAAAAAAAAAAA

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FIGURE 1168

MATSEQSICQARASVMVYDDTSKKWVPIKPGQQGFSRINIYHNTASNTFRVVGVKLQDQQVVINYSIVKGLKYNQ
ATPTFHQWRDARQVYGLNFASKEEATTFSNAMLFALNIMNSQEGGPSSQRQVQNGPSPDEMDIQRQVMEQHQQQ
RQESLERRTSATGPILPPGHPSSAASAPVSCSGPPPPPPPPVPPPTGATPPPPPLPAGGAQGSSHDESSMSG
AAAIAGAKLRRVQRPEDASGGSSPSGTSKSDANRASSGGGGGGLMEEMNKLLAKRRKAASQSDKPAEKKEDESQM
EDPSTSPSPGTRAASQPPNSSEAGRKPWERSNSVEKPVSSILSRTPSVAKSPEAKSPLQSQPHSRMKPAGSVNDM
ALDAFDLDRMKQEILEEVVRELHKVKEEIIDAIRQELSGISTT

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FIGURE 1169

GGGCTCTCTCCTTGTCTAGTCGGCGCCGCGTGC GGCTGGTGGCTCTGTGGCAGCGGCGGCGGCAGGACTCCGGCA
CTATGAGCGGCTTCAGCACCGAGGAGCGCGCCGCGCCCTTCTCCCTGGAGTACCGAGTCTTCCTCAAAAATGAGA
AAGGACAATATATATCTCCATTTTCATGATATTCCAATTTATGCAGATAAGGATGTGTTTCACATGGTAGTTGAAG
TACCACGCTGGTCTAATGCAAAAATGGAGATTGCTACAAAGGACCCTTTAAACCCTATTAAACAAGATGTGAAAA
AAGGAAAACCTTCGCTATGTTGCGAATTTGTTCCCGTATAAAGGATATATCTGGAACATGGTGCCATCCCTCAGA
CTTGGGAAGACCCAGGGCACAATGATAAACATACTGGCTGTTGTGGTGACAATGACCCAATTGATGTGTGTGAAA
TTGGAAGCAAGGTATGTGCAAGAGGTGAAATAATTGGCGTGAAAGTTCTAGGCATATTGGCTATGATTGACGAAG
GGGAAACCGACTGGAAAGTCATTGCCATTAATGTGGATGATCCTGATGCAGCCAATTATAATGATATCAATGATG
TCAAACGGCTGAAACCTGGCTACTTAGAAGCTACTGTGGACTGGTTTAGAAGGTATAAGGTTCTGATGGAAAAC
CAGAAAATGAGTTTTCGTTTAAATGCAGAAATTTAAAGATAAGGACTTTGCCATTGATATTATTAAAGCACTCATG
ACCATTGGAAAGCATTAGTGACTAAGAAAACGAATGGAAAAGGAATCAGTTGCATGAATACAACCTTTGTCTGAGA
GCCCCCTTCAAGTGTGATCCTGATGCTGCCAGAGCCATTGTGGATGCTTTACCACCACCCTGTGAATCTGCCTGCA
CAGTACCAACAGACGTGGATAAGTGGTTCCATCACCAGAAAACTAATGAGATTTCTCTGGAATACAAGCTGATA
TTGCTACATCGTGTTCATCTGGATGTATTAGAAGTAAAGTAGTAGCTTTTCAAAGCTTTAAATTTGTAGAACTC
ATCTAACTAAAGTAAATTCTGCTGTGACTAATCCAATATACTCAGAATGTTATCCATCTAAAGCATTTCATAT
CTCAACTAAGATAACTTTTAGCACATGCTTAAATATCAAAGCAGTTGTCATTTGGAAGTCACTTGTGAATAGATG
TGCAAGGGGAGCACATATTGGATGTATATGTTACCATATGTTAGGAAATAAAATTATTTTGCTGAAAAAAAAA
AAAAAA

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FIGURE 1170

MSGFSTEERAAPFSLEYRVFLKNEKGQYISPFHDIPYADKDVHFMVVEVPRWSNAKMEIATKDPLNPIKQDVKK
GKLRYVANLFPYKGYIWNYGAIPTWEDPGHNDKHTGCCGDNDPIDVCEIGSKVCARGEIIGVKVLGILAMIDEG
ETDWKVIAINVDDPDAANYNDINDVKRLKPGYLEATVDWFRYKVPDGKPENEFAFNAEFKDKDFAIDI IKSTHD
HWKALVTKKTNGKGISCMNTTLESFPKCDPDAARAIVDALPPCESACTVPTDVKWFHHQKN

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FIGURE 1171

GCGGCCGCCAAGCGATCCCTGCTCCGCGCGACACTGCGTGCCCGCGCACGCAGAGAGGCGGTGACGCACTTTACG
GCGGCACGTAAGTGCGTGACGCTCGTCAGTGGCTTCAGTTCACASGTGGCGCCMGSAAGMRGGTTGCTGTGTTG
TGCTTCCCTTCTACAGCCAATATGAAAAGGCCCTAAGTTAAAGAAAGCAAGTAAACGCATGACCTGCCATAAGCGGT
ATAAAATCCAAAAAAGGTTTCGAGAACATCATCGAAAATTAAGAAAGGAGGCTAAAAAGCAGGGTCACAAGAAGC
CTAGGAAAGACCCAGGAGTTCAAAACAGTGTCCCTTTAAGGAGGCTCTTCTTAGGGAAGCTGAGCTAAGGAAAC
AGAGGCTTGAAGAACTAAAACAGCAGCAGAACTTGACAGGCAGAAGGAAGTAAAGAAAGAAAGAACTTGAAA
CTAATCCTGATATTAAGCCATCAAATGTGGAACCTATGGAAGGAGTTTGGGCTTTGCAAACTGAGAACAAG
CCAAGTCGGGCAACAGAATTCAAAGAAGCTGTACTGCCAAGAACTTAAAAAGGTGATTGAAGCTCCGATGTTG
TCCTAGAGGTGTTGGATGCCAGAGATCCTCTTGGTTGCAGATGTCCTCAGGTAGAAGAGGCCATTGTCCAGAGTG
GACAGAAAAAGCTGGTACTTATATTAATAAATCAGATCTGGTACCAAGGAGAATTTGGAGAGCTGGCTAAATT
ATTTGAAGAAAGAATTGCCAACAGTGGTGTTCAGAGCCTCAACAAAACCAAAGGATAAAGGGAAGATAACCAAGC
GTGTGAAGGCAAGAAGAATGCTGCTCCATTGAGAAGTGAAGTCTGCTTTGGGAAAGAGGGCCTTTGGAACTTC
TTGGAGGTTTTTCAGGAACTTGACAGCAAAGCCATTCCGGTTGGAGTAATTGGTTTCCCAAATGTGGGAAAAGCA
GCATTATCAATAGCTTAAAACAAGAACAGATGTGTAATGTTGGTGTATCCATGGGGCTTACAAGGAGCATGCAAG
TTGTCCCCTTGGACAAACAGATCACAATCATAGATAGTCCGAGCTTCATCGTATCTCCACTTAATTCCTCCTCTG
CGCTTGCTCTGCGAAGTCCAGCAAGTATTGAAGTAGTAAAACCGATGGAGGCTGCCAGTGCCATCCTTTCCAGG
CTGATGCTCGACAGGTAGTACTGAAATATACTGTCCAGGCTACAGGAATTCTCTGGAATTTTTTACTATGCTTG
CTCAGAGAAGAGGTATGCACCAAAAAGGTGGAATCCCAAATGTTGAAGGTGCTGCCAAACTGCTGTGGTCTGAGT
GGACAGGTGCCTCATTAGCTTACTATTGCCATCCCCCTACATCTTGGACTCCTCCTCCATATTTTAAATGAGAGTA
TTGTGGTAGACATGAAAAGCGGCTTCAATCTGGAAGAACTGGAAAAGAACAATGCACAGAGCATAAGAGCCATCA
AGGGCCCTCATTGCGCAATAGCATCCTTTTCCAGTCTTCCGGTCTGACAAATGGAATAATAGAAGAAAAGGACA
TACATGAAGAATTGCCAAAACGGAAAGAAAGGAAGCAGGAGGAGAGGAGGATGACAAAGACAGTGACCAGGAAA
CTGTTGATGAAGAAGTTGATGAAAACAGCTCAGGCATGTTTGCTGCAGAAGAGACAGGGGAGGCACTTCTGAGGA
GACTACAGCAGGTGAACAGTCTACAAGGTCTTTTATCTTGGATAAAATCATTGAAGAGGATGATGCTTATGACTT
CAGTACAGATTATGTGTAACAGAACAATGGCTTTTTATGATTTTTTTTTTTTAAACATTTTAAGCAGACTGCTAAAC
TGTTCTCTGTATAAGTTATGGTATGATGAGCTGTGTAATTTTGTGAATATGTATTATATTAACCAGGCAAC
TTGGAATCCCTAAATTCGTGTAAGAAACAATTCATCTCATTGTGAGTGGAAGTAGTTATCTGGAATAAAAAAGA
AGATACCTATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1172

MKRPKLKKASKRMTCHKRYKIQKKVREHHRKLRKEAKKQGHKKPRKDPGVPNSAPFKEALLREAELRKQRLEELK
QQQKLDROKELEKKRKLETNPDIKPSNVEPMEKEFGLCKTENKAKSGKQNSKKLYCQELKKVIEASDVVLEVLD
RDPLGCRCPQVEEAIVQSGQKKLVLIILNKSDLVPKENLESWLNLYLKKELPTVVFRASTKPKDKGKITKRVKAKKN
AAPFRSEVCFGKEGLWKLLGGFQETCSKAIRVGVI GFNVGKSSIINSLKQEQMCNVGVSMGLTRSMQVPLDKQ
ITIIDSPSFIVSPLNSSSALALRSPASIEVVKPMEAA SAILSQADARQVVLKYTVPGYRNSLEFFTMLAQRGMH
QKGGIPNVEGAAKLLWSEWTGASLAYYCHPPTSWTPPPYFNESIVVDMKSGFNLEEELEKNNAQSIRAIKGPHLAN
SILFQSSGLTNGIIEEKDIHEELPKRKERKQEEREDDKDSDQETVDEEVDENS SGMFAAEETGEALLRRLQQVNS
LQGLLSWIKSLKRMLMTSVQIMCNRTMAFYDFFF

1303/2682
FIGURE 1173

AGCCGGATTGAAACAAGATGGCGGGTTCGTGGTGAGAAGCCGTCAAGGAGTAGAAATTGGTATGCTTAGAAGCAG
ATTCTAAAAGCAGTTTCTCTTCAGAACATCTTTTTTCATACCACTTGATAAGCATCTTGAAACACCATGGCTGTA
GCTGCAGTAAAATGGGTGATGTCAAAGAGAACTATCTTGAAACATTTATTTCCAGTCCAAAATGGAGCTTTATAT
TGTTGTTTGTCAATAATCTACGTATTCTCCTCTACCAGATGACTATAATTGCAACGTAGAGCTTGCTCTGACTTCT
GATGGCAGGACAATAGTATGCTACCACCCTTCTGTGGACATTCCATATGAACACACAAAACCTATCCCTCGGCCA
GATCCTGTGCATAATAATGAAGAAACACATGATCAAGTGCTGAAAACCAGATTGGAAGAAAAAGTTGAACACCTT
GAGGAAGGACCTATGATAGAACAACCTTAGCAAAATGTTCTTTACTACTAAGCACCGTTGGTATCCTCATGGACGG
TATCACAGATGTCGTAAGAATCTGAATCCTCCAAAAGACAGATTCATGCGGAGGTTCTTGGGGGAATCAAAGAGAA
ATGTGCCTCATTGGCCATTTGAGAAAATGCAGTCTGGTGTATTCAGTAATATATAGTAAAGTAATAATGATAAAA
TATCTTTTCATATATTAGAATGTGTACTTTTATATAAAGTAATTCTGGATTTGACATTCTCATTAGAGAAACCT
ATTTTCTTTTTCTTTTTCTATTTTAGTGTTTCATTTATGTGCGGTCTCCAATTAGGACTTTCCATAGTGCCA
AAGCCATACATATTCAGTAGAACATCAATAAATTCATCAGAAATTCAAACACTTTATTATAAACGGGCTTCGTG
TTAGATAATTTTGCTAAACAGTAGGCTACTGTAAGTGTTCTGAGCATATTTAAGCAGGCTAGCATTTTCAATTTA
CAATATTTTCAACTGATAGTAGGTTTATTGGGATGTAACCCTATGATAAGTTGAGAAACATCTCTTTTGTGTGT
CTACTGTGATTTAAGTATTTTAAATCATCAGCCAAGCATTGTTAGTAGTATAAATATGATTAAATAAAATGTGCA
TGGCTTTCCTACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1174

MAVAAVKWVMSKRTILKHLFPVQNGALYCVCHKSTYSPLPDDYN CNVELALTS DGR TIVCYHPSVDIPYEHTKPI
PRPDPVHNNEETHDQVLKTRLEEKVEHLEEGPMIEQLSKMFFTTKHRWYPHGRYHRCRKNLNPPKDR

1305/2682
FIGURE 1175

ACAGGGGAAATACCGCGCGCCGGTAGTTGCTGTGGTTTCCGTTCTGAGCTCGCAGCTTAGGAGCTGAAGATCGC
GGACTTAGCGTTGCCGCGTCCGAGTCCGGCCATCAGTGGCTGCAGATCCGGAGCCAGGAGCTCAACCACCTTCT
TCGGAACAGGGCCGGCCTGCTGCTGTGCCCTCGACGCTCGGTGCCTGTATCTACTCCGGGGCCTAGGTCGGCTCC
GGGGGCGGCTTAGGAGAAGGCCGCCGGCGAGATGTTCAAAAACACGTTCCAGAGCGGCTTCTCTCCATCCTCTA
CAGCATCGGCAGCAAGCCTCTGCAAATCTGGGACAAAAAGGTACGGAATGGCCACATCAAAAGAATCACTGATAA
TGACATCCAGTCCCTGGTGCTAGAGATTGAAGGGACAAATGTAAGCACCATATATCACATGCCCTGCAGACCC
CAAGAAGACGCTGGGAATTAACTTCCTTTCTTGTGCTATGATTATCAAAAACCTGAAGAAGTATTTTACCTTCGA
AGTGCAGGTACTAGATGACAAGAATGTGCGTCGTCGCTTTTCGGGCAAGTAACTACCAGAGCACCACCCGGGTCAA
ACCTTTCATCTGCACCATGCCCATGCGGCTGGATGACGGCTGGAACCAGATTCAGTTCAACTTGCTAGACTTCAC
ACGGCGAGCATACGGCACCAATTACATCGAGACCCCTCAGAGTGCAGATCCATGCAAATTGTGCGATCCGACGGGT
TTACTTCTCAGACAGACTCTACTCAGAAGATGAGCTGCCGGCAGAGTTCAAACCTGTATCTCCCAGTTTCAAGCAA
GGCAAAGCAATAACTGGAATTGTGACTCGAGGGATAGACCCCTGGATGTGACTCTTCTTTTTAAAGGAACTAT
GTGGAGGACGATGCAAAAACATATTATCTTAGTTTGCTCTGCTGTAGTTCTGTTATTTATACTTGGTGTGCTT
GTCATGGACACCGGTGAACATGCCGTAACCTCTGTGACTGCATTGTAAGTGCAGTGGGGGTAAGCAGTCTGTGAG
TGGCGCATGAACGCTGGAGCTTATTCGCGCGCTGCCCCAGTGTGGGGGGAGATACCTTTACCATGAACTTACAG
AATTAAAGATGGCCCATAGGAATTCAGACCAATATTCTTCTGCGGTTTATTCTATGTTTTATATATTATCT
AAATATATGTATATGCTGTGTCATACTCATAATCTGGAATGAATAAAGTGATATATTCTGGTTTGTAAAAAA
AAA

1306/2682
FIGURE 1176

MFKNTFQSGFLSILYSIGSKPLQIWDKKVRNGHIKRITDNDIQSLVLEIEGTNVSTTYITCPADPKKTLGIKLPF
LVMIKKNLKKYFTFEVQLDDKNVRRRFRASNYQSTTRVKPFICTMPMRLLDDGWNQIQFNLLDFTRRAYGTNYIE
TLRVQIHANCRIRRVYFSDRLYSEDELPAEFKLYLPVQNKAKQ

1307/2682
FIGURE 1177

ACCCCATCCCCACTCCTATACCGGTCCTCCATTTTGGTGCCTGCAAAGCTCTGGGAAAGAATCCCGGGAAACGA
AAAATGGTGGGTTTGGGGGAAGGGAGGTAAGGGGAGAAAGCTGGAGGGAGGGGCTTTAATTGGAGGCCCCGTAGA
GGACGCGCGGAACCTTCTAAGGTGGGAAAAAACGAAATTAATAATCCTTTGATATCAGGGCTCTGAATCCTGCTG
GTCAGAGCACCAGCATTTCAGTCTCTCTCCTTGCCCTTTGTCTTACTTGTGTTCAAAGAAAAACAACCAGAAAAAA
AAAATCTCATCATGGCAAATATTACCAGGAAAACGAAGAGATGGAGCAGCCTATGCAGAATGGAGAGGAAGACC
GCCCTTTGGGAGGAGGTGAAGGCCACCAGCCTGCAGGAAATCGACGGGGACAGGCTCGCCGACTTGCCCCTAATT
TTCGATGGGCCATACCCAATAGGCAGATCAATGATGGGATGGGTGGAGATGGAGATGATATGGAAATATTCATGG
AGGAGATGAGAGAAATCAGAAGAAAACCTTAGGGAGCTGCAGTTGAGGAATTGTCTGCGTATCCTTATGGGGGAGC
TCTCTAATCACCATGACCATCATGATGAATTTTGCCTTATGCCTTGACTCCTGCCATTTATCATGAGATTAATAC
TGTGATTCCCGCTGTTTTCTTTTCTTGCATTTTCCTAATATGCCTTTACTGATCCGTTTGCTGTGAACCCCTAT
GTTATTTCCATGTGTCAAGTGGGTCTTGTGTTGCCAGCTTCTATTTGAAGATTGCCTTTGCACTCAGTGTAAAGTT
TCTGTCAGCAGTAGTTTTACCCATTTCATGGAAAAATTTAAAGCTAATAAAGCAATTTAAAAAGC

1308/2682
FIGURE 1178

MANIHQENEEMEOPMONGEEDRPLGGGEGHQAGNRRGQARRLAPNFRWAIPNRQINDGMGGDGDDEMEIFMEEMR
EIRRKLRELQLRNCLRILMGELSNHHDHDEFCLMP

1309/2682
FIGURE 1179

GACATGGAGCTGTTCTCGCGGGCCGCCGGGTGCTGGTCACCGGGGCAGGCAAAGGTATAGGGCGCGGCACGGTC
CAGGCGCTGCACGCGACGGGCGCGGGTGGTGGCTGTGAGCCGGACTCAGGCGGATCTTGACAGCCTTGTCGCG
GAGTGCCCGGGGATAGAACCCGIGTGCGTGGACCTGGGTGACTGGGAGGCCACCGAGCGGGCGCTGGGCAGCGTG
GGCCCCGTGGACCTGCTGGTGAACAACGCCGCTGTCGCCCTGCTGCAGCCCTTCCTGGAGGTCACCAAGGAGGCC
TTTGACAGATCCTTTGAGGTGAACCTGCGTGCGGTTCATCCAGGTGTCGCAGATTGTGGCCAGGGGCTTAATAGCC
CGGGGAGTCCCAGGGGCCATCGTGAATGTCTCCAGCCAGTGCTCCCAGCGGGCAGTAACTAACCATAGCGTCTAC
TGCTCCACCAAGGGTGCCCTGGACATGCTGACCAAGGTGATGGCCCTAGAGCTCGGGCCCCACAAGATCCGAGTG
AATGCAGTAAACCCACAGTGGTGATGACGTCCATGGGCCAGGCCACCTGGAGTGACCCCCACAAGGCCAAGACT
ATGCTGAACCGAATCCCACTTGGCAAGTTTGCTGAGGTAGAGCACGTGGTGAACGCCATCCTCTTTCTGCTGAGT
GACCGAAGTGGCATGACCACGGGTTCCACTTTGCCGGTGGGAAGGGGGCTTCTGGGCCTGCTTGAGCTCCCTCCACA
CACCTCAAGCCCCATGCCGTGCTCATCCTACCCCCAATCCCTCCAATAAACCTGATTCTGCTGCCCAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

1310/2682
FIGURE 1180

MELFLAGRRVLVTGAGKGIGRGTVQALHATGARVVAVSRTQADLDSLVRCPGIEPVCVDLGDWEATERALGSVG
PVDLLVNNAAVALLQPFLEVTKEAFDRSFEVNLRAVIQVSQIVARGLIARGVPGAIVNVSSQCSQRAVTNHSVYC
STKGALDMLTKVMALELGPHKIRVNAVNPVMTSMGQATWSDPHKAKTMLNRIPLGKFAEVEHVVNAILFLLSD
RSGMTTGSTLPVEGGFWAC

1311/2682
FIGURE 1181

CGGCGACTGACCGTGGTCGTGGGCGGACGGCGGCTTGCAGCGTGGAGGAGCTGGGGTCGCTGTGGGTTCGCGAAGC
AGAGCCCCGGGACGTGCGCGCTTGGTGCACGATCCTGAAGGGGAGCTCCGAGGGGCCGGGTCGCCAGGGCTGCTG
CGGCCATTCCCGAGCCCCGCGCGGGGCCGCGAGATACTGGTTTAGGCCGTCCCAGGGCTCCGGGCGCACCCGG
TGGCCGCTGCTGCAGCGGAGGGAGCGCGCGGGGCTCGGAGACAGCGTTTCTCCCGGAAGTCTTCCTCG
GGCAGCAGGTGGGAAGTGGGAGCCGGAGCGGCAGCTGGCAGCGTTCTCTCCGAGGTCCGGCACCATGCGCCCTGC
AGCCCTGCGCGGGGCCCTGCTGGGCTGCCTCTGCCTGGCGTTGCTTTGCCTGGGCGGTGCGGACAAGCGCCTGCG
TGACAACCATGAGTGGAAAAAACTAATTATGGTTCAGCACTGGCCTGAGACAGTATGCGAGAAAATTCAAACGA
CTGTAGAGACCCTCCGGATTACTGGACAATACATGGACTATGGCCCGATAAAAGTGAAGGATGTAATAGATCGTG
GCCCTTCAATTTAGAAGAGATTAAGGATCTTTTGCCAGAAATGAGGGCATACTGGCCTGACGTAATTCACTCGTT
TCCCAATCGCAGCCGCTTCTGGAAGCATGAGTGGGAAAAGCATGGGACCTGCGCCGCCAGGTGGATGCGCTCAA
CTCCCAGAAGAAGTACTTTGGCAGAAGCCTGGAACCTCTACAGGGAGCTGGACCTCAACAGTGTGCTTCTAAAT
GGGGATAAAACCATCCATCAATTACTACCAAGTTGCAGATTTTAAAGATGCCCTTGCCAGAGTATATGGAGTGAT
ACCCAAAATCCAGTGCCTTCCACCAAGCCAGGATGAGGAAGTACAGACAATTGGTCAGATAGAACTGTGCCTCAC
TAAGCAAGACCAGCAGCTGCAAACTGCACCGAGCCGGGGGAGCAGCCGTCCCCAAGCAGGAAGTCTGGCTGGC
AAATGGGGCCCGGAGAGCCGGGTCTGAGAGTCTGTGAAGATGGCCAGTCTTCTATCCCCACCTAAAAAGAC
CAAGCATTGATGCCCAAGTTTGGAAATATTCTGTTTTAAAAAGCAAGAGAAATTCACAACTGCAG

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FIGURE 1182

MRPAALRGALLGCLCLALLCLGGADKRLRDNHEWKKLIMVQHWPETVCEKIQNDCRDPPDYWTIHGLWPKSEGC
NRSWPFNLEEIKDLLPEMRAYWPDVIHSFPNRSRFEWKHEWEKHGTCAAQVDALNSQKKYFGRSLELYRELDLNSV
LLKLGIKPSINYYQVADFKDALARVYGVIPKIQCLPPSQDEEVQTIGQIELCLTKDQQLQNCTEPGEQSPKQE
VWLANGAAESRGLRVCEGDPVFYPPPKTKH

1313/2682
FIGURE 1183

GAATTCGAGCTTTTTATTCTAAGAGGAGAAAATCAGTAACGGGAGAAGCAGGAGGATGTCCAGAAGAAATTC
ATCCCTTGCTCTCGCCCCCTACTCTTTCTGGTGTTAGATCGAGCTACCCCTCTAAAAGCAGTTTAGAGTGGTAAAA
AAAAAAAAACACACCAAACGCTCGCAGCCACAAAAGGGATGAAATTTCTTCTGGACATCCTCCTGCTTCTCCCGT
TACTGATCGTCTGCTCCCTAGAGTCCTTCGTGAAGCTTTTTATTCTAAGAGGAGAAAATCAGTCACCGGCGAAA
TCGTGCTGATTACAGGAGCTGGGCATGGAATTGGGAGACTGACTGCCATGAATTTGCTAAACTTAAAAGCAAGC
TGGTTCTCTGGGATATAAATAAGCATGGACTGGAGGAAACAGCTGCCAAATGCAAGGGACTGGGTGCCAAGGTTT
ATACCTTTGTGGTAGACTGCAGCAACCGAGAAGATATTACAGCTCTGCAAAGAAGGTGAAGGCAGAAATTGGAG
ATGTTAGTATTTTAGTAAATAATGCTGGTGTAGTCTATACATCAGATTGTTTGCTACACAAGATCCTCAGATTG
AAAAGACTTTTGAAGTTAATGTACTTGCACATTTCTGGACTACAAAGGCATTTCTTCTGCAATGACGAAGAATA
ACCATGGCCATATTGTCACTGTGGCTTCGGCAGCTGGACATGTCTCGGTCCCCCTTCTTACTGGCTTACTGTTCAA
GCAAGTTTGCTGCTGTTGGATTTTCAAAAACCTTTGACAGATGAAGTGGCTGCCTTACAAATAACTGGAGTCAAAA
CAACATGTCTGTGTCCTAATTTCTGTAAACACTGGCTTCATCAAAAATCCAAGTACAAGTTTGGGACCCACTCTGG
AACCCGAGGAAGTGGTAAACAGGCTGATGCATGGGATTCTGACTGAGCAGAAGATGATTTTATTCCATCTTCTA
TAGCTTTTTTAAACAACATTGGAAGGATCCTTCCTGAGCGTTTCTTGGCAGTTTTTAAACGAAAAATCAGTGTTA
AGTTTGATGCAGTTATTGGATATAAAATGAAAGCGCAATTAAGCACCTAGTTTTCTGAAAAGTGAATTTACCAGGTT
TAGGTTGATGTCATCTAATAGTGCCAGAATTTAATGTTTGAAGTCTGTTTTTCTAATTATCCCCATTTCTTC
AATAICATTTTTGAGGCTTTGGCAGTCTTCATTTACTACCACTTGTTCTTTAGCCAAAAGCTGATTACATATGAT
ATAAACAGAGAAATACCTTTAGAGGTGACTTTAAGGAAAATGAAGAAAAAGAACCAAAATGACTTTATTAAATA
ATTTCCAAGATTATTTGTGGCTCACCTGAAGGCTTTGCAAAATTTGTACCATAACCGTTTATTTAACATATATTT
TTATTTTGTATTGCACCTAAATTTTGTATAATTTGTGTTTCTTTTTCTGTTCTACATAAAATCAGAACTTCAAG
CTCTCTAAATAAAATGAAGGACTATATCTAGTGGTATTTACAATGAATATCATGAAGTCTCAATGGGTAGGTTT
CATCCTACCCATTGCCACTCTGTTTCTGAGAGATACCTCACATTCCAATGCCAAACATTTCTGCACAGGGAAGC
TAGAGGTGGATACACGTGTTGCAAGTATAAAAGCATCACTGGGGGATTTAAGGAGAATTGAGAGAATGTACCCAC
AAATGGCAGCAATAATAAATGGATCACACTTAACG

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FIGURE 1184

MKFLLDI L L L L P L L I V C S L E S F V K L F I P K R R K S V T G E I V L I T G A G H G I G R L T A Y E F A K L K S K L V L W D I N K H G L E E
T A A K C K G L G A K V H T F V V D C S N R E D I Y S S A K K V K A E I G D V S I L V N N A G V V Y T S D L F A T Q D P Q I E K T F E V N V L A H F W
T T K A F L P A M T K N N H G H I V T V A S A A G H V S V P F L L A Y C S S K F A A V G F H K T L T D E L A A L Q I T G V K T T C L C P N F V N T G F
I K N P S T S L G P T L E P E E V V N R L M H G I L T E Q K M I F I P S S I A F L T T L E R I L P E R F L A V L K R K I S V K F D A V I G Y K M K A Q

[illegible]

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FIGURE 1186

MLESSGCKALKEGVLEKRS DGLQLWKKKCCILTEG LLLIPPKQLQHQQQQQQQQQQQQQPGQGPAEPSQPSG
PAVASLEPPVKLKE LHFSNMKTVD CVERKGKYM YFTV VMAEGKEIDFRCPDQGWNAEITLQMVQYKNRQAILAV
KSTRQKQQHLVQQQPPSQPQPQLQPQPQPQPQPQPQSQPQPQPQPKPQQQLHPYPHPHPHSHPHSHPH
PHPHPHPHQIPHHPQPHSQPHGHRLLRSTNSA

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FIGURE 1187

CCCGAGACCACGTGGCCTCCGAGCAGCTCAGGGCGCCCTTGAAAGTTCTTGGATCTGCGGGTTATGCGCCGGTCCC
TTGCAGGGCGGTGGGGCCCGGGCCCTGGACCTACTCCGGGGCCTGCCGCGTGTGAGCCTGGCCAACCTAAAGCCG
AATCCCGGCTCCAAGAAACCGGAGAGAAAGACCAAGAGGTGCGGAGAAGAGGTAGAAAATGTGGCAGAGGCCATAAA
GGAGAAAGGCAAAGAGGAACCCGGCCCCGCTTGGGCTTTGAGGGAGGCCAGACTCCATTTTACATCCGAATCCCA
AAATACGGGTTTTAACGAAGGACATAGTTTCAGACGCCAGTATAAGCCTTTGAGTCTCAATAGACTGCAGTATCTT
ATTGATTTGGGTCGTGTTGATCCTAGTCAACCTATTGACTTAACCCAGCTTGTCAATGGGAGAGGTGTGACCATC
CAGCCACTTAAAGGGATTATGGTGTCCAGCTGGTTGAGGAGGGTGCTGACACCTTTACGGCAAAAGTTAATATT
GAAGTACAGTTGGCTTCAGAACTAGCTATTGCTGCCATTGAAAAAATGGTGGTGTGTTACTACAGCCTTCTAT
GATCCAAGAAGTCTGGACATTGTATGCAAACCTGTTCATTCTTTCTTCGTGGACAACCCATTCCAAAAAGAATG
CTTCCACCAGAAGAACTGGTACCATATTACACTGATGCAAAGAACCGTGGGTACCTGGCGGATCCTGCCAAATTT
CCTGAAGCACGACTTGAACCTGCCAGGAAGTATGGTTATATCTTACCTGATATCACTAAAGATGAACTCTTCAA
ATGCTCTGTACTAGGAAGGATCCAAGGCAGATTTTCCTTGGTCTTGCTCCAGGATGGGTGGTGAATATGGCCGAT
AAGAAAATCCTAAACCTACAGATGAAAATCTCCTTAAGTATTATACCTCATGAATTCCTCCGTCGAAGGAAGCAGA
GTTGTTAAAGAGTACTGGAATAGGGGCTGAAGGATCTATATCCCTTATTGCATTTTCCTTATGTATAATTTCC
AGATGGTGATGTTACTTTTCAGTGTACTCATATGTCTCATTTTCATCTAAAATTAATGGCAGGAACAAGGACT
GCATAGAGAAAAA

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FIGURE 1188

MAGFLQGGGARALDLLRGLPRVSLANLKPNGSKKPERRPRGRRRGRKCGRGHKGERQGRTRPRLGFEGGQTPFY
IRIPKYGFNEGHSFRRQYKPLSLNRLQYLIDLGRVDPSPIDLTQLVNGRGVTIQPLKRDYGVQLVEEGADTFTA
KVNIEVQLASELAIAAIEKNGGVVTTAFYDPRSLDIVCKPVFFLRGQPIPKRMLPPEELVPYYTDAKNRGYLAD
PAKFPEARLELARKYGYILPDITKDELFKMLCTRKDPQIFFGLAPGWVVMADKKILKPTDENLLKYYTS

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FIGURE 1189

GGTATCGATAAGCTTGATATCGAATTCGGCACGAGGCCGGGCGGGGCTGCTGCGGGGCGATCGGGCCGGGC
CGCTGCCGCGCCATGGACTCCCGTGTCCAGCCTGAGTTCCAGCCTCACTGAGTGGCCACCCCCAAAGTGCTGCCA
GCCGAGGAAGCCCCAGCACTGACCATGTCTATTATGGACCACAGCCCCACCACGGGCGTGGTCACAGTCATTGT
CATCCTCATTTGCCATCGCGGCCCTGGGGCCTTGATCCTGGGCTGCTGGTGCTACCTGCGGCTGCAGCGCATCAG
CCAGTCAGAGGACGAGGAGAGCATCGTGGGGGATGGGGAGACCAAGGAACCCCTTCCTGCTGGTGCACTATTCGGC
CAAGGGACCGTGCGTGGAGAGAAAGGCCAAGCTGATGACTCCCAACGGCCCGGAAGTCCACGGCTGAGCCAGGAT
GCAAGGCTCCTGGTCTGTTTGCAGCCGGCCAAGAGCGCTGGGAGGGGCAAAACCATACGGATGCGCTGCTGTC
TGAGAGGAAGGGCTGACACTTGCTGGCATGGCCTCTGCGGGCTTCGTCATCGCATGCACTGATGCCCGGGGACCT
GGCTGTCTGGGCTTCCCTCGGCCTCCAGGTGAGGCTGCCATTGCAGGCACCTGGGCAGGCTGACCTTGCTGG
GGCTCATGGCCCTGTAGCGCTTTTGTACTTGAATGTCTAGCTGAGCCTGTTTTTGAITGGAGCTACTACTGTAAT
GCGTGAACATAACAACTGTGAACGTGAAATAGGCCCTGGAAGCACGTGCTTAAGCCCTTTTGCTGATTTTTAA
AAATATCATCTAGCGCACACGGGACTGGTATTCTGGCTGTACTAATGACAAGCTGAGTCAAGACCCTGGAGGGTC
ATAGGCTTGTAAGGCCACGCCACACTCGGCAGGGTCTCTCATGTGTGTCCATCTGCGTGTATGTCAAGGAAG
TGAGATGCCAATTTGGGGTCTTGAGGCTGACCAGTTGGGGTGCTTGGGTGATCTCTGCTTCGTTAGTCATGGGTG
GAAGAAAAACCACACCYCYMRMRCCCTCCGTTCTTTCTGCATAGACTCACTTGTTAAATAGCAGTTCTGTTGAG
AGTGGAGTTACTGCAGGGAAGCTACCGGACCTGCCTGGGAGCCAGTGAAGGGCGAGTCAGGGCACGCGTCTCGGA
GGCTGCCAGCGTCTTTGTAGCAGAGCAGTTTCTTGCCGCTTGGGTCTTCAGCACGCCAAGCCCCCACCACCCCT
CCACCCCCGAGTGAAGGCTTCGCTGAAATTGCTTTGGTCTCATAGAGCCTGTGGTGGCTACTTTTGGTCTGAAA
CCCCTTGCCCCAGGAAGAGAAAAGGTTGTATGTTTTGTGTTGGTGTTCCTATTTTCTGCACTGGAGGGGAGG
GGACTGTTGAGGTTCTGTCTTTTTCTTCTTTCTCTTCCCTCTTCACATCACTTGGCTTCCCTTCTCTCTGA
TGACCGTCCGCTATGGGGTCTGACTTCACTTCTCTCAGCGGTCTCCAGTCCCCTGACCCAGCTCTAAAGGCA
CTTAGGACCCAGGGAACATTTCTCACGTGCACATTCCCCTAAGAGCCACCAGACTGCTTCCCTGCCAGCCTGTGCT
TGCGGCAGGGAGCCGGGGCAGGGCAGAGGTGACTTGAAAGTTCAAGGACTTGACTCTCCACAGGTGGTGAGCTGG
TGGCTCTCTGGTGAGCTAGTGTCTCCACAGMCWVTCTCCAAAGGCTCCCCATGTACATTTGAGTGAGCTCACTT
TGATTTTTAATCCCACCACAAGCACATACTAATTTTATTTATGATTCAAATGTGACTCGTGCCCTGCCATCCCTG
TAATAGATGGAAGGTGAGCCCCGGCTTAACCACAGAGCACTGGCCCTTCATGGCTGAGCTCAGAGCTCTGGCCTC
CTGCTCAGACTAAAGGCACCTCCTCTGGCCTCACCCAAGCCTCTTCTAAAAACCATGTTGAATGAATCCAGGTC
TGGAACCCCGAGGCGGGGAGAAAGTAGGGAGCTGTTGTTTTAAGCAGCATACACCTAAATTGGGGGTTTAAACATTA
AGTAGGAGCTTGGGGTGAAGAGGGACAGCCGGCTGGGGCCACCTGAGCAGAAGGTGGTAATGAACACCTCAGCT
GGGCTCTTGGGAGACCTTAGGAAGCAGGAGAGGCAACACCTCTGGCTACTGATGGTGTGGCAAGTTTCAAGAGG
TGGTGGTGGGTAGGCGTGATGTCAGCAGAAGCCCTGCAGGCTGGGTGGGCAGGACACGTGGTGGGGGCCACTGA
AACCAGGCCTAGGAGGGGAGAACAAGTTCCAAAGGTGCCGACTGGAAGAAGGGGGTAAAGTTTGCTTTGGTGAGT
GAGAAAAGGCTGGGGCGTGTGATCCATCCCCTCACGTTTTCAGAACTTCCAGGCTTTCTACCTCGACTCTCACCAC
AGCCAGCACATACACCTAGGCTGTTTTTCTTCTCCACACCTGAGGGACGCAGCAACAGCTAGGATCTGCATTT
TCAGGTTCCGAGCCTGACCCCTGGAACCTGACCAGCGCTCGATTGTCAGCCTTGGCCTGGGGTTTTGACCTTGCCA
GTGAAGTTTTCGGTTTTGAAGTGATTAAATGTCACTTCTCATCAGTTTCACTTCTGGAGGTTTTCTTATCTTACT
CCCTGGTGCCAGGGACGTACCTGGGAGTTTGAATCAGGCCCATTTGAGCGTGGCAGCCGTGTTGGGTGAAGGTCC
GGGGCTCGGTGAGGCACTGGGGGGGTTTTCGGGAGGAAAATGAAAATGCTTCTAGAATGAGTGAACCATCATATA
GCTCTCACTGTTTTTTCAATAGCTACTTTTTTTAGCAGACACCAGAGCCACACTCAAATGGCTAAGTAGGTTATG
ACCTCTCTGGATTATTTTTGAATGCCCACTGTTGCAATTCAGTTTTCTGAACTAATAAGAAATTAAGCATTCA
TCCTTCGTATCACTGCAGAAGCAACAGTGGGGGCACAGGGAGGGAACCTCTGACACTGAGCCACTAAAATATGGA
CTAATTTTTTGGACAAATCTTCAAACGGACTGTGCTACTGTATTTGTCTCAAAGCTACCAAGTTTGTGCAATAAG
TGGAAGGGATGTCATCCTTCTTCAATAAATGTGAATGACATTCAAGCTGATTTCTAGACCACTGAGAAAATCT
TTATTTACAATAAATTTCAATAAATTTGCATAAATATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1190

MSIMDHSPTTGVVTVIVILIAIAALGALILGCWCYLRLQRISQSEDEESIVGDGETKEPFLVQYSAKGPCVERK
AKLMTPNGFEVHG

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FIGURE 1191

GGAGCTCTGGAGGCGGGGCTTCGAGCGTGGCTCGTGGGTTTTCCGTGAAGTCGCGGTGCAGCGGTGGGCGGC**ATG**
TCTGTGGCCGGTGGGGAGATTCTGTGGGGACACGGGGGAGAGGACACTGCTGCTCCCGGCCGGTTCAGCTTCAGC
CCGGAGCCCACGCTCGAGGACATCCGCCGCCTCCATGCTGAGTTTGCTGCGGAACGAGACTGGGAACAGTTCCAT
CAGCCTCGGAATCTCCTCCTGGCCTTGTTGGGGAAGTGGGGGAGCTGGCAGAACTCTTTCAGTGGAAAACCGAT
GGGGAACCTGGCCCCCAAGGCTGGTCCCCCAGGGAACGGGCAGCCCTTCAAGAGGAGCTTAGTGACGTCCTCATC
TACCTGGTGGCATTAGCAGCCCGCTGCCGTGTGGATCTGCCGCTAGCAGTGCTCTCCAAAATGGACATCAACCGG
CGACGCTACCCAGCCCATCTGGCCCGCAGCTCTTCCCGCAAGTATACAGAATTGCCCCATGGGGCCATCTCTGAA
GACCAGGCTGTGGGGCCTGCGGACATTCCCTGTGACTCCACAGGCCAGACCTCAACCT**AGAA**AGATGGCCACAGG
ACTTGCAACTCAGGGTGGTGTCTGAAGAGCAGAGAGTGGCCTGGCCCTGGAGCCTTTTCTAGTCTTTTCAGAAT
AGATCATGGGCCTGAGGCCTCCACTTCTTGAGGICTGAGGCCCAGCAGCCTCTAGAAGGTAGCCTCCTGGTGTT
GTTCTCCAGTAAATGGTTTTGGGCGATAACTTCTAGATTATTCCTGGATGGCCAGGGAGGCTCTCTGTCTCAG
CAGGTGATGACGGGGGTACCAGGGGTGCCTCTGAGACCCATTCTCGTGTTCCTGTGTACCTTTTGCCTGCAG
GGCAGAGAGATCTGGTTTCTAGCAAATTCAGTAGGATGTGATGTAAGTTCCTTCCCCCTCTTAGAGATTGAAG
GCTGTAAGAGTCCAGATGGTGGAGCCAGGCTGTCTGGGTTCAAATGCCATCTTTGACACTTGCAAGCTAAATGAC
ATTACTCAAATTAATCGTTCTGCACTTCAGCTTCCTTGTCTATCAAATAAAAAGAATAGTACCTGCCCAAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 1192

MSVAGGEIRGDTGGEDTAAPGRFSFSPEPTLEDIRRLHAEFAAERDWEQFHQPRNLLLALVGEVGELAELEFQWKT
DGEPPGQGWSPRERAALQEELSDVLIYLVALAARCRVDLPLAVLSKMDINRRRYPAPHLARSSSRKYTELPHGAIS
EDQAVGPADIPCDSTGQTST

GGCAGCGAGGCAGAGGGCGGTTTCTTGAGTTTACAGCCGCGTTTGCGGGACGCTGTCTGCGGGCAGCTCTGCCCTGTG
TGACCTTGTCCAGACGAAGCCTCGCAGGGATGGGTTGGAGCCTGGGCGGGGCTTCGCTCAGGCAGCGTTTGAGGC
AGACCCAGCAGGGTCTCTCTGGGGCCTTCTGCCTTTGAAGTGCAGTGGCGGGCGGGCGCACGGTCTCTGTACG
CCCTAGACTAGGGGCCGCCATCTCCATAGGCCACGGCCGTGAGCCGGCCCTGCGCCGGCAGGTGCGGGACATACT
GTGGCGCGTTTTTGGGCTGGAGGATAGTTGCAAGTATTGTTTGGTCAGTGCTATTTCTACCCATCTGCACCACAGT
ATTTATAATTTTCAGCAGGATTGATTGTTTTCATCCTATACAGTGGCTGTCTGATTCTTTCAGTGACCTGTATAG
TTCTATGTAATCTTTTACTTCTGCTGCTGTCTAGTGGTAATAATAATAAAGTATTTCAATGTGGAGTTCTA
TGCAGTTGTGCCTTCTATTCTTGTCTCCAGACTAGCTCTGTATAGGAAGATCATTTCCTCAGCAACTCATGCA
CTCATTATTTCATGCTGCAATGGGAATGGTGATGGCCTGGTGTGCTGCAGTGATAACCCAGGGCCAGTACAGCTT
TCTTGTGGTTCCTTCGACTGGTACTAACAGCTTTGATAGCCCTGCTGCGCAAACCTGCTTAAATGAATATCATCT
TTTTTCTCTACTGACTGGAGCATTATAGGGCTATAGCTATAGCCTCCTGTATTTTGTAAACAACATGAACATACT
TCCATTTCCCATCATACAGCAATACAAGTTCTTGCCTTTTAGGAGATCTCTGCTCTTATAGTTAAACACAGTTG
TGTGAATCACTGTTCTCGTTAGAAATTTCTGCATTTATATTATTTCTTGGCTATATTCCCAAAGCTTGGAT
TAGCACTGCTATGAACCTTCACATAGATGAGCAGGTTTCATAGGCCACTTGACACAGTGAGTGGCCTCTTAAATCT
CTCGTTACTCTACCATGTCTGGCTGTGTGGTGTCTTTCTCTGACGACTTGGTATGTCTCATGGATACTCTTCAA
AATCTATGCCACAGAGGCTCATGTGTTTCTGTTCACCACCATTTCGAGAAGGGTCAGATGAGTGCCTTCCAAA
AGTGTTAAATAGCAATCTTCCCCCATCATAAAGTATTTAGCCTTGACAGGACCTGATGTTGCTTTCTCAATATTC
TCCTTCACGAAGACAAGAGTTTTTCAGCCTCAGCCAACCAGGTGGACATCCCCACAATTGGACAGCCATTTCAG
GGAGTGTGTTGAATCTTTTAAATGGTATGACTCAGAAACTGATTCTCTATCAAGAAGCTGCTGCTACGAATGGGAG
AGTGCTTTTCATCTTACCCAGTGGAACCTAAGAAATTAATTTCTCCAGAAGAACTGCTTTTCAGACACCAAATC
TAGCCAGATGCCTCGGCCCTCAGTGCCACCATTAGTTAAACATCACTGTTTTCTTCAAATATCTACACCTGA
TGTTGTGAGCCCCATTTGGGACCCCATTTGGCTCTAGTGTAAATGAATCGGATGGCTGGAATTTTGTATGTAACAC
CTGCTATGGGTCACCGCAAAGTCTCAGCTAATAAGAAGGGGGCCAAGATTGTGGACATCAGCTTCTGATCAGCA
AATGACTGAATTTTCTAATCTTCTCCATCTACCTCTATTAGTGTCTGAGGTGAAGACAATGAGACAACCCAGTGT
GATTTATTTCATGGATTGAGAAATAACGTGAACAGATTGAAGATTTCTTGTCAAACGGGTGCTGATAATGTATTT
TTTCAGTAAGCACCCAGAGGCTCATTACGGCTGTTTTTCAGATGCCCAAATGCATATTTGGGCATTAGAAGG
TCTGTGCACTTAGTAGCAGCATGATTTACAGAGGATAGATTTGGAGTTGTCCAGACGACACTACCAGCTATCCT
TAATATCTTGTGTAGCAGCAAGAGGTCAGTCGACAAGTACTTTAAGCTTCCTCATGCTTCCAGTAAACCACCCCG
GATTTCAGGAAGCCTTGIGGACACTTCATATAAAACATTAAAGATTTGCATTTCAGAGCATCACTGAAAACCTGCCAT
CTATCGAATAACTACTACATTTGGTGAACATCTGAATGCTGTGCAAGCATCTGCAGAACATCAGAAAAGACTTCA
ACAGTTCTTGGAGTTCAAAGAATAGTTAAGTAATATAAACTGTGTTTATTACACTGCTGTATACAACCTACAGATGG
GACAGTAAATGTTTCAGCATTCTTGGATCAGAAGAAAACGGACTAATTAGATGCTTCCTTTGTCTGGTGGTTGCT
TTGAAAACCTATACTTTAATGGGAGAAATCATGGAAAGAAATTTCAACAGAATAACTGAAAACCTGCCTTTTCTGT
ACCGATTGCTTTTTGTGTGTGTGGTATAATAAAATCTTTATTCAATTTTACAGAAAAA

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FIGURE 1194

MATAVSRPCAGRSRDILWRVLGWRIVASIVWSVLFPICTTVFIIFSRIDLFHPIQWLSDSFSDLYSSYVIFYFL
LLSVVIIIISIFNVEFYAVVPSIPCSRLALIGKIIHPQQLMHSFIHAAMGMVMAWCAAVITQGQYSFLVVPCTGT
NSFDSPAAQTCLNEYHLFFLLTGAFMGYSYSLLYFVNNMNYLPFP IIQQYKFLRFRRSLLLLVKHSCVESLFLVR
NFCILYYFLGYIPKAWISTAMNLHIDEQVHRPLDTVSGLLNLSLLYHVWLCGVFLTTWYVSWILFKIYATEAHV
FPVQPPFAEGSDECLPKVLNSNPPPIIKYLALQDLMLLSQYSPSRQEVFSLSQPGGHPHNWTAISRECLNLLNG
MTQKLILYQEAATNGRVSSSYPEPKKLSPEETAFTQPKSSQMPRPSPVPLVKTSLSFSSKLSTPDVVSFPGTP
FGSSVMNRMAGIFDVNTCYGSPQSPQLIRRGPRLWTSASDQQMTEFSNPSPTSSISAEGKTMRQPSVIYSWIQNK
REQIKNFLSKRVLIMYFFSKHPEASIQAVFSDAQMHIWALEGLSHLVAASFTEDRFGVVQTTLPAILNTLLTLQE
AVDKYFKLPHASSKPPRISGSLVDTSYKTLRFAFRASLKTAIYRITTTTGEHLNAVQASAEHQKRLQQFLEFKE

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FIGURE 1195

GGAAACCCAAGAGGAAATGACTGAGCCCGTCTGGGTCCCCGCCCGCTCGCGCTCCCCTGGCCACACCCTCCGCCT
GGACGCAGCAGCCACCGCCGCGTCCCTCTCTCCACGAGGCTGCCGGCTTAGGACCCCAGCTCCGACATGTCGCC
CTCTGGTCGCCTGTGTCTTCTCACCATCGTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATACCAC
GTCCAGTTCTTCAGCAGACTCAACTATCATGGACATTCAGGTCCCGACACGAGCCCCAGATGCAGTCTACACAGA
ACTCCAGCCCACCTCTCCAACCCCAACCTGGCCTGCTGATGAAACACCACAACCCCAGACCCAGACCCAGCAACT
GGAAGGAACGGATGGGCCTCTAGTGACAGATCCAGAGACACACAAGAGCACCAAAGCAGCTCATCCCCTGATGA
CACCACGACGCTCTCTGAGAGACCATCCCCAAGCACAGACGTCCAGACAGACCCCAGACCCCTCAAGCCATCTGG
TTTTCATGAGGATGACCCCTTCTTCTATGATGAACACACCCCTCCGGAACGGGGGCTGTGGTCGCAGCTGTGCT
GTTTCATCACAGGCATCATCATCCTCACCAGTGGCAAGTGCAGGCAGCTGTCCCGGTTATGCCGGAATCGTTCGAG
GTGAGTCCATCAGAAACAGGAGCTGACAACCTGCTGGGCACCCGAAGACCAAGCCCCCTGCCAGCTCACCCTGCC
CAGCCTCCTGCATCCCCCTGAAGAGCCTGGCCAGAGAGGGAAGACACAGATGATGAAGCTGGAGCCAGGGCTGCC
GGTCCGAGTCTCCTACCTCCCCCAACCCTGCCCCGCCCTGAAGGCTACCTGGCGCCTTGGGGGCTGTCCCTCAAG
TTATCTCCTCTGCTAAGACAAAAAGTAAAGCACTGTGGTCTTTGCC

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FIGURE 1196

MSPSGRLCLLTIVGLILPTRGQTLKDTTSSSSADSTIMDIQVPTRAPDAVYTELQPTSPTPTWPADETPQPQTQT
QQLEGTDGPLVTDPEHKSTKAAHPTDDTTTLSEKPSSTDVQTDPTLKPSTGFHEDDPFFYDEHTLRKRGLLVA
AVLFITGIIILTSKCRQLSRLCRNRCR

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FIGURE 1197

TGGCGGCGGGCGGGCGGGTGTCCCGGCTGTGCCGTTGGTGTGGCCCGTCAGCCCGGTACACAGCGCCCGGG
CCGCGTCGAGCCCACTACAGCCAAGCCGCTGCGGGCCGGGTCCGGCGCGGGCGGGCGCGCAGACGGAGGGCGGGC
GCCGCGGCCAGGGCGGGCCCGTGGGACCGCGGGCCCCCGGCGCAGCGCTGCCCGGCTCCCGGCCCTGCCGGCCTCC
TCCCTTGGCGCCGCGGCC**ATGG**CGGCCAGCGCGGAAGCGGAAGCAGGAGGAGAAGCACCTGAAGATGCTGCGGGAC
ATGACCGGCGCTCCCGCGCAACCGAAAGTGCTTCGACTGCGACCAGCGCGGCCCCACCTACGTTAACATGACGGTC
GGCTCCTTCGTGTGTACCTCCTGCTCCGGCAGCGCTGCGAGGATTAAATCCACCACACAGGGTGAATCTATCTCC
ATGACAACATTACACAAACAGGAAATTGAATTCTTACAAAAACATGGAAATGAAGTCTGTAAACAGATTGTGGCTA
GGATTATTTGATGATAGATCTTCAGCAATTCCAGACTTCAGGGATCCACAAAAAGTGAAGAGTTTCTACAAGAA
AAGTATGAAAAGAAAAGATGGTATGTCCCGCCAGAACAAGCCAAAGTCGTGGCATCAGTTCATGCATCTATTCA
GGGTCTCTGCCAGTAGCACAAGCAGCACACCTGAGGTCAAACCACTGAAATCTCTTTTAGGGGATTCTGCACCA
ACACTGCACCTTAAATAAGGGCACACCTAGTCAGTCCCCAGTTGTAGGTCGTTCTCAAGGGCAGCAGCAGGAGAAG
AAGCAATTTGACCTTTTAAGTGATCTCGGCTCAGACATCTTTGCTGCTCCAGCTCCTCAGTCAACAGCTACAGCC
AATTTTGCTAACTTTGCACATTTCAACAGTCATGCAGCTCAGAATTCTGCAAATGCAGATTTTGCAAACCTTGAT
GCATTTGGACAGTCTAGTGGTTCGAGTAATTTGGAGGTTTCCCCACAGCAAGTCACTCTCCTTTTCAGCCCCAA
ACTACAGGTGGAAGTGTGCATCAGTAAATGCTAATTTTGCTCATTTTGATAACTTCCCAAATCCTCCAGTGCT
GATTTTGGAACTTCAATACTTCCCAGAGTCATCAAACAGCATCAGCTGTTAGTAAAGTTTCAACGAACAAAGCT
GGTTTACAGACTGCAGACAAATATGCAGCACTTGCTAATTTAGACAATATCTTCAGTGCCGGGCAAGGTGGTGAT
CAGGGAAGTGGCTTTGGGACCACAGGTAAAGCTCCTGTTGGTTCTGTGGTTTCAGTTCCAGTCAGTCAAGTGCA
TCTTCAGACAAGTATGCAGCTCTGGCAGAACTAGACAGCGTTTTTCAGTTCTGCAGCCACCTCCAGTAATGCGTAT
ACTTCCACAAGTAATGCTAGCAGCAATGTTTTTGAACAGTGCCAGTGGTTGCTTCTGCACAGACACAGCCTGCT
TCATCAAGTGTGCTGCTCCATTTGGACGTACGCCTTCCACAAATCCATTGTTGCTGCTGCTGGTCTTCTGTG
GCATCTTCTACAAACCCATTTAGACCAATGCCAGAGGAGCAACAGCGGCAACCTTTGGCACTGCATCCATGAGC
ATGCCCACGGGATTCGGCACTCCTGCTCCCTACAGTCTTCCCACCAGCTTTAGTGGCAGCTTTCAGCAGCCTGCC
TTTCCAGCCCAAGCAGCTTTCCCTCAACAGACAGCTTTTTCTCAACAGCCCAATGGTGCAGGTTTTGCAGCATT
GGACAAACAAAGCCAGTAGTAACCCCTTTTGGTCAAGTTGCAGCTGCTGGAGTATCTAGTAATCCTTTTATGACT
GGTGCACCAACAGGACAATTTCCAACAGGAAGCTCATCAACCAATCCTTTCTTAT**AGC**CTTATATAGACAATTTA
CTGGAACGAACCTTTTATGTGGTCACATTACATCTCTCCACCTCTTGCACTGTTGTCTTGTTCCTACTGATCTTAGC
TTTAAACACAAGAGAAGTCTTTAAAAAGCCTGCATTGTGTATTAAACACCAGGTAATATGTGCAAAACCGAGGGC
TCCAGTAACACCTTCTAACCTGTGAATTGGCAGAAAAGGTAGCGGTATCATGTATATTAAATTTGGCTAATATT
AAGTTATTGCAGATACCACATTCATTATGCTGCGAGTACTGTACATATTTTCTTAGAAATTAGCTATTTGTGCAT
ATCAGTATTTGTAACCTTTAACACATTGTTATGTGAGAAATGTTACTGGGGAATAGATCAGCCACTTTTAAGGTG
CTGTCAATATCTTGGAAATGAATGACCTAAATCATTTTAACCATTGCTACTGGAAAGTAACAGAGTCAAAATTG
GAAGGTTTTATTCACTTCTGAATTTTCTTTCTAAAGAGCTCTTCTATTTATACATGCCTAAATCTTTTAAAA
TGTAGAGGGATACCTGTCTGCATAATAAGCTGATCATGTTTTGCTACAGTTTGCAGGTGAAAAAAAATAAATAT
TATAAAATAAAAAAAAAAAAAAGAAAAAAAAA

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FIGURE 1198

MAASAKRKQEEKHLKMLRDMTGLPRNRKCFDCDQRGPTYVNMTVGSFVCTSCSGSLRGLNPPHRVKSISMTTFTQ
QEIEFLQKHGNEVCKQIWLGLFDDRSSAIPDFRDPQKVKEFLQEKYEKKRWYVPPEQAKVVASVHASISGSSASS
TSSTPEVKPLKSLLGDSAPTLHLNKGTPSQSPVVGRSQQQQEKQFDLLSDLGSDIFAAPAPQSTATANFANFA
HFNSHAAQNSANADFANFDAFGQSSGSSNFGGFP TASHSPFPQTGGSAASVNANFAHFDNFPKSSSADFGTFN
TSQSHQTASAVSKVSTNKAGLQTADKYAALANLDNIFSAGQGGDQSGFGTTGKAPVGSVVSVPSQSSASSDKYA
ALAE LDSVFSSAATSSNAYTSTSNASSNVFGTVPVVASAQTQPASSSVPAFPGRTPSTNPFVAAAGPSVASSTNP
FQTNARGATAATFGTASMSMPTGFGTPAPYSLPTSFSGSFQQPAFPAQAAFPQQTAFSQQPNGAGFAAFGQTKPV
VTPFGQVAAAGVSSNPFMTGAPTGQFPTGSSSTNPFL

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FIGURE 1199

TGTGAGGTTCGCGTTCCCCAGTGTTACGGAGGGTTCCTTGAGGCAGGAGTGAAAATTGGGICTGGGGGTTAGTCCTG
GGGTGGAGGTCTGGGCACGCCGGGTTCGGACCCCTCCATCTTCGGTTTTGCACACCCCGCTTTCAGCGCGGAGT
CGGGCGGGGGTAGGGCGGCGTCGCGTGCGTGACGTCATCCAGCGGCGCCATCGGAGGCTCCAGTGGCCTTGACCT
CCCCGCTCGTGTAGGCCTGCGCGGCGATCTGTCAGTTCGTCCGGGCGGGGCGGGGCTGGCTTCGGCCTACCG
GCAGCCAGGGCCTGAGTTCCCTGGCGGAAGAGGCAGCGGTGCGACCGAGAACCCGGAGCAGGTGGCGAGCGAGG
GTCTCCCGAGCCCGTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTCTG
AGTCCTTGCGGGGCTTCGAGCAGGAGCGGTGGGCTGGCCGACCTGCACCCCGATGTTTTGCCACCGCGCCCA
GGCTGGACATACTGCACCAGGTGCTATGTGGCAGAAGAATTCAAGAGAATTAGCTATGCCAAGACCAAGACGA
GAGCCGAGGTGCGGGGCGGTGGCGGAAAGCCTTTGGCCGCAGAAAGGCACTGGGCGGGCCCGCATGGCAGCATC
CGCTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCCGGGGCCCCACAAGTTACTACTACATGCTGCCCA
TGAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACT
CCCTAGAGCTGCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGACTCCGTAC
TCCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACT
TGATCCCGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCTGACGCTGCCACCGTCG
CCTTCCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTGCCCTACAGCG
ACTTCCCCGACCCCTACCCACGCTACCCAGGGCCAGCGGCCACCCCGTACCACTGTTGATGTGAAGCACCTC
TTCTGAGCCAGGCCGAGCCCTGGACGACTTGGGAGCCTCAGGCCCACGCCACCCCTTCGAGGAAGGTGTCACCT
GGCCCCCTTCATTCCACGGAGGAAGCTGAGGCCACAGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGG
AGAGCCCAGACGGGGCTTCTTGCATCCATTCCCTCTTTTTGTTTTTAAATAAATTGTATTTTGG

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FIGURE 1200

MLQFVRAGARAWLRPTGSQGLSSLAEEAARATENPEQVASEGLPEPVLRKVLPVPTHRRPVQAWVESLRGFEQE
RVGLADLHPDVFATAPRLDILHQVAMWQKNFKRISYAKTKTRAQVGGGGKPLAAERHWAGPAWQHPLSALARRR
CCPWPPGPTSYYYMLPMKVRALGLKVALTVKLAQDDLHIMDSLELPTGDPQYLTELAHYRRWGDSVLLVDLTTEE
MPQSIVEATSRLKTFNLIPAVGLNVHSMKQHQLVLTLPVAFLEDKLLWQDSRYRPLYPFSLPYSDFFRPLPHA
TQGPAATPYHC

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FIGURE 1201

TTTTTTTTTTTTTTGGAGTTATACCTTTGGTTCTGTTTTTACCCTTTATTTGGAATACAGTGCAACATTACAGT
TTTGGATCATTAAATGAATGGACTTGGTGATATAGTACTAACAAGCACGACCTGAATTCTGGGAGTAAGTGGTTT
TCTAGTTTCATGGGGGAGGAAAACAGATACGTGCAAGATCTCCAGAGGAGAACAGAACCATGGTACTCAGTGAGTC
ACCAAAGGGCTTTGGCTTCAACTCACTAATGGCTGGAACAAGTGCCAGTCTTGGTCAGCCATCCAGGATTTTCAT
CACAGCAAATCAAAATCTCCAATTTTCAAATAATTGTAGGTAGAAGAGAGAGAATAACTCCAACTGTCTTAT
AAAAGGATCTAGATGACTACTGAAGTGCTCCTCCATTGAGTTGGCAAAATCTTCAGAGTGACTGTTGGAGCAA
GGAGCCTTTCATGTGCTCCCAGTTATTATATAGTGCATAGAGGCTGGTAAGTGTTAGTCCTGTCAGACCACCTCG
TGCTATCCCTCGAAGACCACCTTTGGACTCTGGATGGGTCTCCAAATATTAACCTTGAAGATTAGTGACGGCCA
GGCATGGTGGCTCACACATGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGCTTGAGCTCAGGAGTTTGAGAACA
ACCTAGGCAACACGGCAAAACCTGTCTCTGCAAAAAATAGAAAAATTAGCTTAGTGGGTGGCATGCGCCTGTG
GTCCCAGCTATTTGGGAGGCTGAGGTAGGAGGATCGCTTGAGCCCAGGAGGTCGAGGCTGCAGTGAGCTGAGATT
ACACCACTGCACTCCAGCCTGGGTGACAGAGTGAGAAAGAAAAAATGTGGTAAGATAGCTATAATCACACT
TTGAGTTAGATGCTGGTGACCACCCCCACTTCATGCACTGACGCATCAATCTCCACAATTAAAAAACAGTGAG
TGACACCTAGCATCATGCTAGTTGAAAAGAACTCAAGAATTACAGATATTGAACTACCTGCTTGATAACAAGTGA
ACAATTTTACATGTGGCAAAAGATTAGCAACAAGGATTTCACTTGCAATGGAGAAACAAAAATATTTCAATCGGT
TACTTAAAAATAGTCCCCAAGTGTAATAAAAGGAAGCTACAGATAAATTTCTCAAATAAAAAGGCCTAACTGC
TTATGGTTATAAAATGTTAGTCTTACAACGTAATGTGGCAAGAGAAACCAAGCTACAAAACCTCCTCAGGAATG
GGGTGCCCAAAGCAGCTTTTAAAAAATGTGAAGTCTCAAGCAGCTCCATGAGTAGGGATCATAAACTTCAGG
TAGCCATCTTTGTACCTAGAGTGATTTGTTCCAAGTCATGTGTTAGGGAGACAGAGGTAGAGCGGAGTTGTGGG
GGTGGCTAGAGGCCCTTTTAGCTCCGTGCCTGTCAATTCTGTGACATTCAGTGATGTTGCTGAGCTACAACATTT
CAGAACTAACCATTTCTGCAACGAGCGTCTACCAGATGGCTTCAGCTGATGGATTAAAGGGCCACTCCCCCTCC
AGGAATCTCTCCAGTCTGAAGACTTCTGATAGCTGACCTGCTTACGTTCTTCTTAGTTTTCCAATGCTAAGTGTC
ATAATTATCTCTCTCAAACAGAACTGCAGACATTATCTATAAACAG

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FIGURE 1202

MVLSESPKGFNFSLMAGTSASLGQPSRIFITANQNLOFFKLIVGRRERITPNCLIKSR

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FIGURE 1203

GCAGAGGTGCGGCCGGGGAGGCGCGGGAGGCTGGAGCTGGAGGCGCGGCCGGGTGAGCTGAGAACCATGTGTG
CTCAGTATTGCATCTCCTTTTGCTGATGTTGAAAAAGCTCATATCAACATTCGAGATTCTATCCACCTCACACCAG
TGCTAACAAAGCTCCATTTTGAATCAACTAACAGGGCGCAATCTTTCTTCAAATGTGAACCTCTCCAGAAAACAG
GATCTTTTAAAGATTTCGTGGTGCTCTCAATGCCGTGAGAAGCTTGGTTCTGATGCTTTAGAAAGGAAGCCGAAAG
CTGTTGTTACTCACAGCAGTGGAACCATGGCCAGGCTCTCACCTATGCTGCCAAATTGGAAGGAATTCCTGCTT
ATATTGTGGTGCCCCAGACAGCTCCAGACTGTAAAAAACTTGCAATACAAGCCTACGGAGCGTCAATTGTATACT
GTGAACCTAGTGATGAGTCCAGAGAAAATGTTGCAAAAAGAGTTACAGAAGAAACAGAAGGCATCATGGTACATC
CCAACCAGGAGCCTGCAGTGATAGCTGGACAAGGGACAATTGCCCTGGAAGTGCTGAACCAGGTTCTTTGGTG
ATGCACTGGTGGTACCTGTAGGTGGAGGAGGAATGCTTGCTGGAATAGCAATTACAGTTAAGGCTCTGAAACCTA
GTGTGAAGGTATATGCTGCTGAACCCCTCAAATGCAGATGACTGCTACCAGTCCAAGCTGAAGGGGAAACTGATGC
CCAATCTTTATCCTCCAGAAACCATAGCAGATGGTGTCAAATCCAGCATTGGCTTGAACACCTGGCCTATTATCA
GGGACCTTGTTGGATGATATCTTCACTGTACAGAGGATGAAATTAAGTGTGCAACCCAGCTGGTGTGGGAGAGGA
TGAAACTACTCATTGAACCTACAGCTGGTGTGGAGTGGCTGCTGTGCTGTCTCAACATTTCAAACCTGTTTCCC
CAGAAGTAAAGAACATTTGTATTGTGCTCAGTGGTGGAAATGTAGACTTAACCTCCTCCATAACTTGGGTGAAGC
AGGCTGAAAGGCCAGCTTCTTATCAGTCTGTTTCTGTTTAAATTTACAGAAAAGGAAATGGTGGGAATTCAGTGTC
TTTAGATACTGAAGACATTTTGTTCCTAGTATTGTCAACTCTTAGTTATCAGATTCTTAATGGAGAGTGGCTAT
TTCATTAAGATTTAATAGTTTTTTTTTGGACTAAGTAGTGAAAAAATTTTATACTTAACGAGACATTTTGTCAA
GGCTAAAAAAAGTCTTGCAAAATGGGGCAGTGGACTGACAGGCTGACATAGAAAATAAACTTTGCCCAATCACA
ACTTGTGCCTCCCATCCCTGGAGTACTGACTGGCACCAGTAAGACAGAATCTCTCTGAATCCATTACTCCATGCC
CCCTTGAGGCACTGTTGAAGAAATCTCACTTTTCAGCCAGGGTACTGGTCTGGTACATATGGATCATAAGTCCA
TTTGGGGAAGACTCGTTTATACAGGTTTCATCAGTACTGTGCTTGAGATTTAGCTTCCCATCAAAGCTGCATTT
CATGTGGCCATGGGTACCTAGAAAGACATCAGAACAAAGTCGGTCAAATTAAGTAGAAAAATTTTAAAGCAATGA
CTTCCAACCCAACAGTCATTTAGCAAACTGCAGAAATGCAGACATGGTCTCAAATCCCGTGTTCCTTACCTAA
AGGTTCTTGATATGTCTCTCCGGCCCCACTTCGTTCTCAGTTCCACTGGTTTAAACCACAGCACATCCTCTTA
GAATCAAACACATTAAAGACCAAGATGAAACATTTACCCACAAAATGTAAACCCAACCTTTATACCACAAAGGCA
ATCAGATCCCATCCTCCTCCTCATAACCCACCTCTGTTGAAGAACATGTAACGTACTACTGCCATCTTAGTAAAA
ATTTTGAAAGGATGACCACTCAGAACAACTCTCTTGATGACCATTCGTCTGGATCTACTGACATAAGATGGCCT
GTAGCAATGAGGCTGTGCATTCTTAAAGGACAAAAGCAAAGAGCTATTTAGGAATTTACAGGCCAAAGTCTTCA
TTTATTGCCCAGTCCATTTAAAGACCCATGCAAGAGCCTGGTTTGTATCCCTGCCCTAGCCCAATCTGAGGCTA
AGATTGGTAAACTGTAAGCCCACTTAACCTTGTCATAGGTTCTTGAAAACCTTGTAATTCAAGAGAAATGATG
TATAACAAAACCATACTTTTTCTCATCAGTTGTTACAAGGAAAGGATGTTGAACAAAAGGCAGTTATTGAGGAC
TGGCTATACACTGTTTCACGTAAAAGTTGGAGTTTTTATTGTTCTATTAAACAATGTTAAATGAAGACTTACTGTA
TTTTGAAAACCATCATTACCTTCTCCATACCATTGGCTCCCAATTTAAATAAACAAGAGAAAACGGGTGTTTCAT
CT

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FIGURE 1204

MCAQYCISFADVEKAHINIRDSIHLTPVLTSSILNQLTGRNLFFKCELFQKTGSFKIRGALNAVRSLVPDALERK
PKAVVTHSSGNHGQALTYAAKLEGIPAYIVVPQTAPDCKKLAIQAYGASIVYCEPSDESRENVAKRVTEETEGIM
VHPNQEPAVIAGQGTIALEVLNQVPLVDALVVPVGGGMLAGIAITVKALKPSVKVYAAEPSNADDCYQSKLK GK
LMPNLYPPETIADGVKSSIGLNTWPIIRD LVDDIFTVTEDEIKCATQLVWERMKLLIEPTAGVGVA AVL SQHFQT
VSPEVKNICIVLSGGNVDLTSSITWVKQAERPASYQSVSV

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FIGURE 1205

CACGAGGGGGACCCGGGCCGCTGGGCGCCGGGATGGAGGGCGCCAAGGGGCGGGGAGCGGGCGTGCGTGTGTGT
GCGAGTGCGAATGCGAGGGAGGCCGGCCTTGAGTGAAACCGGAGCTACAAAGAAGGGGAGAGTCCGGGAGCGGGA
GGGCGCGAGGGAGGAGCGGCGGCTCCGGGGCAGCTCCGACGCCCTCCCGCGGGGAAGGAGCCCCCGCGGTGCCGC
CGAGGCCCCGACGCGGGGCCGCCCTCGGCTCGCCGCCCGCGCCCGCGCCGCTGGGAATGATGAAGAAGAACA
ATTCCGCCAAGCGGGGACCTCAGGATGGAACACAGCAGCCTGCACCGCCCGAGAAGGTGGCTGGGTCCGGAAAT
TCTGCGGGAAAGGGATTTTCAGGGAGATTTGAAAAAACCGCTATGTGGTGCTGAAAGGGGACCAGCTCTACATCT
CTGAGAAGGAGGTAAAAGATGAGAAAAATATTCAAGAGGTATTTGACCTGAGTGACTATGAGAAGTGTGAAGAGC
TCCGGAAGTCCAAGAGCAGGAGCAAGAAAAATCATAGCAAGTTTACTCTTGCCCACTCCAAACAGCCCGGTAACA
CGGCACCCAACCTGATCTTCCTGGCAGTGAGTCCAGAAGAGAAGGAATCGTGGATCAATGCCCTCAACTCTGCCA
TCACCCGAGCCAAGAACCGTATCTTGGATGAGGTACCCGTTGAGGAGGACAGCTATCTTGCCCATCCCACTCGAG
ACAGGGGCAAAAATCCAGCACTCCCGCCGCCCCCAACAAGGGGACACCTAATGGCTGTGGCTTCCACCTCTACCT
CGGATGGGATGCTGACCTTGGACTTGATCCAAGAGGAAGACCTTCCCTGAGGAACCAACCTCTTGTGCTGAGA
GCTTTGCGGTGACCTGGACAAGTCTGTGGCCAGCTGGCAGGGAGCCGGCGGAGAGCGGACTCAGACCGCATCC
AGCCCTCCGCAGACCGGGCAAGCAGTCTCTCCGACCTTGGGAAAAAACAGACAAAGGGGGCACCTACACCCCCC
AGGCACCCAAGAAGTTGACGCCACAGAGAAAGGCCGCTGCGCCTCCCTGGAGGAGATCTATCTCAGCGGGATG
CTGCCTCTGCCCCGACCCCTCCAGCTGCGGGCTGAGGAACCCCAACCCCTGCCCTCCCCAACCCGGGGCAGCTGT
CCCGGATCCAGGACCTGGTAGCAAGGAACTGGAGGAGACTCAGGAGCTTCTGGCAGAGGTCAGGGACTGGGAG
ATGGGAAGCGAAAGGCCAAGGACCCCTCGGTCTCCGCCGATTCTGAGTCAGAGCAGCTGCTGCTGGAGACGG
AACGGCTGCTGGGAGAGGCATCATCGAATTGGAGCCAGGCAAAGAGGGTGCTGCAGGAGGTCAGGGAGCTGAGAG
ACCTGTACAGACAGATGGACCTGCAGACCCCGGACTCCACCTCAGACAGACCCCGCACAGTCAGTACCGGA
AGAGCCTGATCTGAGAGGGCAGGGTGGGGTCTGGAACCTTGTCGGGTGACAGACTCTTATCTCCGTGTTGCTGGAT
AAAGCTTTTTTATTTACCTCAATCAAAAAAGAAAAAATAAATGAAAAAAAAAAAAA

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FIGURE 1206

MMKKNNsAKRGPQDGNQQPAPPEKVGWVRKFCGKGIFREIWKNRYVVLKGDQLYISEKEVKDEKNIQEVFDLSY
EKCEELRKSRSKKNHskFTLAHskQPGNTAPNLIFLAVSPEEKESWINALNSAITRAKNRILDEVTVEEDSYL
AHPTRDRAKIQHSRRPPIRGHLMVASTSTSDGMLTLDLIQEEDPSPEEPTSCAESFRVDLDKSVAQLAGSRRRA
DSDRIQPSADRASSLSRPWEKTDKGATYTPQAPKKLTPTEKGRCASLEEILSQORDAASARTLQLRAEEPPTPALP
NPGQLSRIQDLVARKLEETQELLAEVQGLGDGKRKAKDPPRSPPDSESEQLLETERLLGEASSNWSQAKRVLQE
VRELRLYRQMDLQTPDSHLRQTTPHSQYRKSLM

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FIGURE 1207

CCCCGCTGCATACGGTTGCCGGC**ATGG**CACATTACAACCTTCAAGAAAATTACGGTGGTGCCGTCGCCCAAGGACT
TCATAGACCTCACGTTGTCTGAAGACTCAACGAAAGACTCCAACCGTTATTCATAAACATTACCAAATACATCGCA
TTAGACATTTTTACATGAGAAAAGTCAAATTTACTCAACAGAATTACCATGATAGACTTTCACAAATTCACAG
ATTTCCCCAAATTGGATGATATTCATCCGTTCTATGCTGATTTGATGAATATTCTCTACGACAAGGATCATTACA
AGTTGGCTCTGGGGCAAATAAATATTGCCAAAAATTTAGTGGACAATGTTGCTAAAGATTATGTGCGACTGATGA
AGTATGGCGACTCTCTCTACCGCTGCAAACAGCTGAAGCGTGCGGCCCTGGGACGGATGTGCACAGTGATCAAGA
GGCAGAAGCAGAGTTTGGAGTATTTGGAGCAAGTGCCTCAGCATTTATCCCGTTTGCCAACCAATTGATCCGAATA
CCAGGACCCTGCTTTTGTGTGGGTACCCAAATGTTGGGAAGTCCAGCTTCATCAACAAGGTGACGAGAGCAGACG
TGGATGTCCAGCCCTATGCGTTTACAACCAAGTCTCTGTTTGTGGGCACATGGATTATAAGTATCTACGTTGGC
AGGTTGTAGACACTCCTGGGATCCTGGACCACCCTCTGGAGGATAGGAACACCATCGAGATGCAGGCCATCACTG
CCCTGGCCACCTCCGTGCTGCGTCTCTGTATGTGATGGATTTGTCTGAGCAGTGTGGGCATGGGCTGAGGGAGC
AGCTAGAACTCTTCCAGAACATCAGACCTCTCTTCATCAACAAGCCTCTCATAGTTGTAGCCAACAAATGTGATG
TGAAGAGAATAGCTGAACCTTTCTGAAGATGATCAGAAAATATTTACAGATTTGCAGTCTGAAGGATTCCTGTAA
TAGAGACCAGCACCCTGACTGAGGAAGGTGTTATTAAAGTTAAACAGAGGCTTGCGATAGGCTTTTGGCTCATC
GAGTGGAAACCAAATGAAGGGAATAAAGTGAATGAGGTGCTGAATAGACTGCACCTGGCTATCCCAACCAGGA
GGGACGATAAGGAGAGGCCCCCTTTCATCCCTGAAGGAGTGGTGGCTCGCAGGAAGAGGATGGAAACTGAGGAGT
CCAGGAAGAAGAGGGAACGAGATCTTGAGCTGGAATGGGAGATGATTATATTTTGGATCTTCAGAAGTACTGGG
ATTTAATGAATTTGTCTGAAAAACATGATAAGATACCAGAAATCTGGGAAGGCCATAATATAGCTGATTATATTG
ATCCAGCCATCATGAAGAAATTGGAAGAATTAGAAAAAGAAGAAGAGCTGAGAACAGCTGCTGGAGAGTATGACA
GTGTATCTGAGAGTGAAGACGAAGAGATGCTGGAATCCGACAGCTGGCAAAGCAAATTCGAGAGAAAAAGAAGT
TGAAAATCTGGAGTCCAAAGAAAAGAATACACAGGGACCCAGGATGCCGCGAACTGCTAAGAAGGTTTCAGAGGA
CAGTTTTGGAGAAGGAGATGCGTAGTCTTGGTGTGACATGGACGATAAAGACGATGCCCATACGCAGTCCAGG
CAAGAAGATCCCGGAGCATCACTAGGAAAAGAAAGCGGGAGACTCTGCTCCCCCGTCTCTGTGGCCCCGGAGTG
GGAGTTGCTCTCGAACTCCACGTGACGTTTCTGGTCTTAGGGATGTCAAGATGGTGAAGAAAGCCAAGACTATGA
AGAATGCTCAGAAGAAGATGAATCGGTTGGGGAAGAAAGGGGAGGCGGATAGACACGTGTTTGATATGAAGCCCA
AGCACTTGCTGTCTGGGAAGAGGAAAGCTGGTAAAAAGGACAGGAGAT**AGT**ATCCGTTTGGTTGGCGTGGCTTCG
CTAGAGTGTGCTGTTTATTTCTGGTTTGGTACAGTATGGTTTCATGAAATTGGAGCTCTGTACAACTGAAAA
AGACAAAATAAGTAAAGCACTTGTGCTTTGCTGAAAACATAGGTTAACCCTATATAGGTGTGGGAAATTTTGT
CACTGCATAATATTACAAATATTTTGTAGTAGACAGTGTTCACATTTAATGGAGTATCAGTTGCTTCAGATTTT
CAGAACTGGGAAGATTTACTGGTGAACGGGTTGTTTTGATGGAGAAAAACCTTATTTCTTTTGTAAAGAGCT
GGGAGCAAACACGTTTATGAGTGTGTGCGAATCCCGTGCTTAAATACGCTCTTAAATTATTTCTAGTCTTATT
TTACAATGTCTCATTGTAGTCTGTCTTCAACTATTTTATCCAAAATAAACCTCCAGAAGAACTAAAAAAAAAA
AAAAAAAAAAAAAA

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FIGURE 1208

MAHYNEKKITVVPSSAKDFIDLTLSTQKTPTVIHKHYQIHRIRHFYMRKVKFTQQNYHDRLSQILTDFFPKLDDI
HPFYADLMNILYDKDHYKLALGQINIKNLVDNVAKDYVRLMKYGDSTYRCKQLKRAALGRMCTVIKRQKQSLEY
LEQVRQHLSRLPTIDPNTRTLLLCGYPNVGKSSFINKVTRADVDPYAFSTTKSLFVGHM DYKYLWQVVDTPGI
LDHPLEDRNTIEMQAITALAHRAAVLYVMDLSEQCGHGLREQLELFQNI RPLFINKPLIVVANKCDVKRIAELS
EDDQKIFTDLQSEGFPVIETSTLTEEGVIKVKTEACDRLLAHRVETKMKGKVNVEVLNRLHLAIPTRDDKERPP
FIEGCVARRKRMETEESSRKKRERDLELEMGGDYILDQKYWDLNMLSEKHDKIPEIWEGHNIADYIDPAIMKKL
EELEKEEELRTAAGEYDSVSESEDEEMLEIRQLAKQIREKKKLKILESKEKNTQGPRMPRTAKKVQRTVLEKEMR
SLGVDMDDKDDAHYAVQARRSR SITRKRKREDSAPPSSVARSGSCSRTPRDVSGLRDVKMVKKAKTMKNAQKKMN
RLGKKGEADRHVFDMPKHLLSGKRKAGKKDRR

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FIGURE 1209

GGCTGCGAGAAGACGACAGAAGGGGGAAGGGGCTGATGCGAACTGGGGCCACGGTAGCCATCGCGCTTTGCAGTT
CGGTCTCCTGGTGTACGGCCAACGCCAAGTAGGGGATTGCGTTCCCTCCAGTCGCAGACCCATCAGATTTGGAT
ATGTCCTTCATATTTGATTGGATTTACAGTGGTTTCAGCAGTGTGCTACAGTTTTTAGGATTATATAAGAAAAC
GGTAACTGGTATTTCTTGGATTGGATAATGCAGGAAAAACAACATTGCTACACATGCTAAAAGATGACAGACTT
GGACAACATGTCCCAACATTACATCCCACTTCCGAAGAACTGACCATTGCTGGCATGACGTTTACAACTTTGTAT
CTGGGTGGACATGTTCAAGCTCGAAGAGTGTGGAAAACTACCTTCCTGCTATCAATGGCATTGTATTTCTGGTG
GATTGTGCAGACCACGAAAGGCTGTTAGAGTCAAAAGAAGAACTTGATTCACTAATGACAGATGAAACCATTGCT
AATGTGCCTATACTGATTCTTGGGAATAAGATCGACAGACCTGAAGCCATCAGTGAAGAGAGGTTGCGAGAGATG
TTTGGTTTATATGGTCAGACAACAGGAAAGGGGAGTATATCTCTGAAAGAACTGAATGCCCCGACCCTTAGAAGTT
TTCATGTGTAGTGTGCTCAAAAGACAAGGTTACGGAGAAGGCTTCCGCTGGATGGCACAGTACATTGATTAACAC
AAACTCACATTGGTTCCAGGTCTCAACGTTTACGGCTTACTCAGAGATTTGATTGCTCAACATGCATAACTTGAAT
TCAATAGACTTTTGGCTGGTTATAAAACAGATGTTTTTTAGATTATTAATATTAAATCAACTTAATTTGAATGAGA
ATTGAAAACCTGATTCAAGTAAGTTTGAAGTATCACAATGTAGCTTTCTAATTCCATAAAAGTACTTGGTTTTTAC
AGTTTTATAATCTGACATCACCCACGCGCCATTTGTAAAGAGCAACTTCCAGCAGTACATTGAAGCACTTTTTA
ACAACATGAAACTATAAACCATATTTAAAAGCTCATCATGTAAATTTTTTATGTACTTTCTGGAAGTACTTTT
TAAATTTTAGATTATATGTCCACCTATCTTAAGTGTACAGTTAATAATTAGCTTATTCAATGATTGCATGATGCC
TTACAGTTTTCAATAACTTTTTTCTTATGCAAACGTCATGCAATAAAACAACTCTAATGTTTGGCAAAAAAA
AAAAA

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FIGURE 1210

MSFIFDWIYSGFSSVLQFLGLYKKTGKLVFLGLDNAGKTLLHMLKDDRLGQHVPTLHPTSEELTIAGMTFTTFD
LGGHVQARRVWKNYLPAINGIVFLVDCADHERLLESKEELDSLMTDETIANVPILILGNKIDRPEAISEERLREM
FGLYGQTTGKGSISLKELNARPLEVFMCSVLKRQGYGEGFRWMAQYID

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FIGURE 1211

CACGGGGCTGCGTGGAAGAGCGCCGAGCGGTGGCGTCGTTGTCGCCCCCTCCTCGTCGGGAAGAATCGTTTGGT
CTCCTGCCGTGCCCGGCCGGTGTCTGTGCTGCTGCTGCCCCGCGGGTGTGGATGTTGTCGGCTCCGTGTT
GTGATGACAGGAGAATGTGTGTGTGTCCCGGGCCAGACGAATTGGAATCCCAGTCAGAAGTTCCAGCCTGCCAC
TGTCTCTGATGCCATGCCAGCACCAACTCAACTGTTTTTCTCTCATCCGTAAGTGTGAAGTGAAGGATCT
ATGGCACTGCATGTTACTGCCACCACAAACATCTGTGTTGTTCTCATCGTACATTCTCAGAGTCGACTGAGAT
ACACACCTCATCCAGCATATGCTACCTTTTGCAGGCCAAAGGAGAAGTGGTGGCAGTACACCAAGGAAGGAGAT
ATGCTTCCACACCACAGAAATTTTACCTCACACCTCCACAAGTCAATAGCATCCTTAAAGCTAATGAATACAGTT
TCAAAGTGCCAGAATTTGACGGCAAAATGTGAGTTCTATCCTTGGATTGACAGCAATCAAGCTGCCTGCAAATG
CACCCATTGAGGACCGGAGAAGTGCAGCAACCTGCTTGCAGACCAGAGGGATGCTTTTGGGGGTTTTTGATGGCC
ATGCAGGTTGTGCTTGGTCCCAGGCAGTCAGTGAAAGACTCTTTTATTATATTGCTGGCTCTTTGGTACCCCATG
AGACTTTGCTAGAGATTGAAAATGCAGTGGAGAGCGCGCGGGCACTGCTACCCATTCTCAGTGGCACAAGCACC
CCAATGATTACTTTAGTAAGGAGGCATCCAAATTTGACTTTAACAGCTTGAGGACTTACTGGCAAGAGCTTATAG
ACCTCAACACTGGTGAAGTGCAGTGCATATTGATGTTAAGGAGGCTCTAATTAATGCCTTCAAGAGGCTTGATAATG
ACATCTCCTTGGAGGCGCAAGTTGGTGATCCTAATTTCTTCAACTACCTGGTGCTTCGAGTGGCATTCTCTG
GAGCCACTGCTTGTGTGGCCCATGTGGATGGTGTGACCTTCATGTGGCAATACTGGCGATAGCAGAGCCATGC
TGGGTGTGCAGGAAGAGGACGGCTCATGGTCAGCAGTCACGCTGTCTAATGACCACAATGCTCAAAATGAAAGAG
AACTAGAACGGCTGAAATTTGGAACATCCAAAGAGTGAGGCCAAGAGTGTCGTGAAACAGGATCGGCTGCTTGGCT
TGCTGATGCCATTTAGGGCATTGGAGATGTAAAGTTCAAATGGAGCATTGACCTTCAAAGAGAGTGATAGAAT
CTGGCCAGACAGTTGAATGACAATGAATATACCAAGTTTATTCTCTAATTATCACACACCTCCTTATCTCA
CTGCTGAGCCAGAGGTAACCTACCACCGATTAAGGCCACAGGATAAGTTTCTGGTGTGGCTACTGATGGGTGT
GGGAGACTATGCATAGGCAGGATGTGGTTAGGATTGTGGGTGAGTACCTAACTGGCATGCATACCAACAGCCAA
TAGCTGTTGGTGGCTACAAGGTGACTCTGGGACAGATGCATGGCCTTTTAAACAGAAAGGAGAACCAAAATGTCTT
CGGTATTTGAGGATCAGAACGCAGCAACCCATCTCATTGCGCACGCTGTGGGCAACAACGAGTTTGGGACTGTTG
ATCATGAGCGCTCTCTAAAATGCTTAGTCTTCTGAAGAGCTTGCTCGAATGTACAGAGATGACATTACAATCA
TTGTAGTTCAGTTCAATTCTCATGTTGTAGGGGCGTATCAAACCAAGAAAGTGAGTGGCTCTTTACTGGCAAT
TCTCAAATGATTACATTTAAAGGGCAGATTTTAAAGATCTACTATAATAAACATTTTCAGGTGGCATTCTAA
GCATTTACCTTTTGATACTCTAGGGGCGCTCCAAATTGACTTTGCAGCAGGGTGGCAGGGCAGAAGAGTCTGGT
CCTGCCTAGCTCAGATTTTCATGGCACCTGCACTTGAGGCAAGCACTTCTTTATCACAGGTGCTTGAAACATTAG
CTTCTTTTACCAACCTGAGAAAATTAGGATGACCTGGCAAATAAGATCTTGAATAGCCAAAAGCAAGTATCTTGC
TGTGTGTAGTCTCTTGGTTAAAGTGAAGAACAGTACTGTTACACCTTTCTTCACTGAGATTCCAGTGACATGAG
AACATATATTTATTGCATGATTTTCTAGTACACAGTCTATGCATTATTATATACATTTATTTAGCCTAAAGTG
GTTTTCAAATCCAGTTCTTCAAGCCATAAATGACCAAGATCCAAGCAATCTGAATTTGTTTTGTGATTATTTGA
CTGGAATGCTTCTTAAGTGAATAACTATACTCCGTTATCCACCGATTTCCTAATGTAATTGAAACATTTCTA
GTTTGCCACACACTTGAGACCGTAAGGGTTTTAGTTTGTCTACTCTTCTATTGAAGTTAAAAA

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FIGURE 1212

MLSAPCCDDRRMCVCPGPRRIGIPVRSSSLPLFSDAMPAPTQLFFPLIRNCELSRIYGTACYCHHKHLCCSSSYI
PQSRLRYTPHPAYATFCRPKENWWQYTQGRRYASTPQKFYLTTPQVNSILKANEYSFKVPEFDGKMSVLSIDLTA
IKLPANAPIEDRRSAATCLQTRGMLLGVDGHAGCAWSQAVSERLFYYIAGSLVPHETLLEIENAVESGRALLPI
LQWHKHPNDYFSKEASKLYFNSLRTYWQELIDLNTGESTDIDVKEALINAFKRLDNDISLEAQVGDPNFNLNVLV
LRVAFSGATACVAHV DGVDLHVANTGDSRAMLGVEEDGSWSAVTSLNDHNAQNERELERLKEHPKSEAKSVVK
QDRLLGLLMPFRAFGDVKFWSIDLQKRVIESGPDQLNDNEYTKFIPPNYHTPPYLTAEPVITYHRLRPQDKFLV
LATDGLWETMHRQDVVRIVGEYLTGMHHQOPIAVGGYKVTLGQMHGLLTERRTKMSSVFEDQNAATHLIRHAVGN
NEFGTVDHERLSKMLSPEELARMYRDDITIIVVQFNSHVVGAYQNQEK

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FIGURE 1213

CCATGGAGTCAGCCGGGCTAGAGCAGCTCCTACGGGAGCTGCTGCTACCGGACACCGAGCGCATCCGTCGGGGCCA
CGGAACAGCTCCAGATCGTTCTTCGGGGCCCCGCCGCTTTGCCGGCTCTCTGCGACCTGCTAGCCTCGGCGGGCCG
ACCCCCAGATCCGCCAGTTTGCGGCCGTGCTGACCCGCAGACGACTGAACACCCGCTGGCGACGGCTGGCGGGCGG
AGCAACGGGAGAGCCTCAAGTCCCTGATCCTGACGGCCCTGCAGAGAGAAACAGAGCACTGTGTGAGCCTCAGCC
TGGCCCAGCTCTCAGCCACCATTTCGAAAGGAAGGCTTGGAGGCCCTGGCCACAGCTTTTGAGCTGCTTCAGC
ACAGTACCCACAGCCCCACAGCCCAGAGAGAGATGGGGCTTTTGCTGCTAAGTGTGGTGGTGACCTCCCGGC
CCGAGGCCCTTCCAACCCACCACCGGGAGCTTCTTCGGCTTCTGAATGAGACTCTTGGTGAGGTGGGCTCTCCTG
GGCTGCTCTTCTACTCCCTGCGCACTCTGACCACCATGGCTCCCTACCTCAGCACTGAAGATGTGCCTCTCGCTC
GGATGTTGGTGCCCAAGCTGATCATGGCCATGCAGACTCTGATCCCCATAGATGAGGCAAAGGCCCTGTGAGGCC
TTGAGGCTTTGGATGAAGTGTGGAGTCAGAGGTGCCGGTCATACCCCCCTACCTCTCTGAAGTCTCACAATTCT
GCCTGGAGGTAGCTAGAAATGTGGCCCTGGGCAATGCGATACGCATACGTATTCTCTGCTGCCTCACTTTCTTGG
TCAAAGTCAAGAGCAAGGCCCTTACTGAAGAATCGTCTCCTGCCACCCTTGCTGCACACCCTTTCCCCATTGTGG
CTGCTGAGCCCCACCAGGCCAGTTGGATCCCGAGGACCAGGATTGAGAAGAGGAAGAGTTGGAGATTGAGCTGA
TGGGGGAGACTCCCAAGCATTTCGCTGTACAAGTTGTGGACATGCTGGCACTACACCTGCCCCCGAGAAGCTCT
GTCCCCAGCTGATGCCCATTGTTGAAGAGGCTTTGCGGAGCGAGAGCCCATACCAGCGCAAAGCTGGACTCCTGG
TGCTGGCCGTGCTGTCTGACGGAGCTGGCGACCACATCAGGCAGAGACTGCTGCCCCACTGCTGCAGATTGTGT
GCAAGGGCCTGGAGGACCCCTCGCAAGTTGTACGCAATGCTGCGCTGTTTGCCTGGGCCAGTTCTCAGAAAACC
TACAGCCCCATATCAGCAGCTATTCAAGGGAGGTAATGCCACTGCTCCTCGCCTACTTGAAGTCGGTGCCTCTTG
GACACACACACCACCTAGCCAAGGCCTGCTATGCCCTGGAGAATTTTGTGGAGAACCTAGGGCCCAAGGTGCAGC
CCTACCTTCCGGAGCTTATGGAATGCATGCTGCAGCTTCTGAGGAACCCAGCAGTCCCCGGGCCAAGGAGCTGG
CTGTGAGCGCCCTGGGAGCCATTGCTACGGCTGCCCAGGTCTCGCTGCTGCCCTACTTCCCTGCCATCATGGAGC
ACCTGCGGGAATTCTGTTAACAGGCCGTGAGGACCTTCAGCCTGTGCAGATCCAGAGCCTGGAGACACTGGGGG
TGCTGGCAGCAGCAGTGGGGGAGCCCATGAGGCGCTGGCTGAGGAATGCTGCCAGCTGGGTCTGGGCCTCTGCG
ACCAGGTAGACGACGCTGACTTGGGGCGCTGCAGCTACAGCCTATTTGCAGCCTTATCGGGTCTGATGGGTGAGG
GCCTGGCGCCCCACTTGGAAACAGATCACCACGCTCATGCTGCTGTCAGTTCGCTTCCACCGAGGGCATTGTGCCTC
AGTATGACGGGAGCAGCTCCTTCTCTGTTTGACGATGAGAGTGATGGGGAAGAAGAGGAGGAGCTCATGGATG
AGGATGTGGAAGAAGAGGATGACTCAGAGATCTCAGGGTACAGCGTGGAGAATGCCCTTCTTCGATGAGAAGGAAG
ACACCTGTGCTGCCGTGGGGGAGATCTCTGTGAACACCAGTGTGGCCTTCTTCCATACATGGAAAGTGCTTTG
AAGAAGTATTTAAACTGCTGGAGTGCCCTCACCTGAATGTGCGGAAGGCAGCCCATGAGGCTCTGGGTGAGTTT
GCTGTGCACTGCACAAGGCCTGTCAAAGCTGCCCTCGGAACCCAACTGCTGCTTTGCAGGCTGCCCTGGCCC
GAGTCGTGCCATCCTACATGCAGGCAGTGAACAGGGAGCGGGAACGCCAGGTGGTGATGGCCGTGCTGGAGGCC
TGACAGGGGTGCTCCGCAGCTGTGGGACCCTCACACTGAAGCCCCCTGGGCGCCTCGCTGAGCTCTGTGGCGTGC
TCAAGGCTGTGCTGCAGAGGAAGACAGCCTGTGAGGATACTGACGAGGAGGAGGAAGAGGAAGATGATGATCAGG
CTGAATACGACGCCATGTTGCTGGAGCAGCTGGAGAGGCCATCCCTGCCCTGGCAGCCGCGGCTGGGGGAGACT
CCTTTGCCCCATTCTTTGCCGTTTCTGCTGCTTATTGGTGTGCAAGACAAAACAGGGCTGCACAGTGGCAGAGA
AGTCCCTTTGAGTGGGGACCTTGGCAGAGACTATTAGGGCCTGGGTGCTGCCCTCAGCCCAGTTTGTGTCTCGGC
TGCTCCCTGTGCTGTTGAGCACCGCCCAAGAGGCAGACCCGAGGTGCGAAGCAATGCCATCTTCGGGATGGGCG
TGCTGGCAGAGCATGGGGGCCACCTGCCCAGGAACACTTCCCCAAGCTGCTGGGGCTCCTTTTTCCCTCCTGG
CGCGGGAGCGACATGATCGTGTCCGTGACAACATCTGTGGGGCACTTGCCCGCCTGTTGATGGCCAGTCCCACCA
GGAACACAGAGCCCCAGGTGCTGGCTGCCCTACTGCATGCCCTGCCACTGAAGGAGGACTTGGAGGAGTGGGTCA
CCATTGGGCGCCTCTTCAGCTTCTGTACCAGAGCAGCCCTGACCAGGTTATAGATGTGGCTCCCGAGCTTCTGC
GTATCTGCAGCCTCATTCTGGCTGACAACAAGATCCCACCAGACACCAAGGCCGCACTGTTGCTGCTCTGACGT
TCCTGGCCAAACAGCACACCGACAGCTTCAAGCAGCTCTGGGCTCACTGCCTGTTGACAAGGCTCAGGAGCTCC
AGGCTGTACTGGGCCTCTCCTAGACTGCAGGCTGCAGCCAGTCCAGAGAGAATAGAGCCTGCCCA

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FIGURE 1214

MESAGLEQLLRELLLPDTERIRRATEQLQIVLRAPAALPALCDLLASAADPQIRQFAAVLTRRLNTRWRRLAAE
QRESLKSILITLALQRETEHCVSLSLAQLSATIFRKEGLEAWPQLQLLQHSTHSPHSPEREMGLLLSVVVTSRP
EAFQPHHRELLRLINETLGEVGSFGLLFYSLRTLTTMAPYLSTEDVPLARMLVPKLIMAMQTLIPIDEAKACEAL
EALDELLESEVPVITPYLSEVLTFCLEVARNVALGNAIRIRILCCLTFLVKVSKALLKNRLLPPLLHTLFPIVA
AEPPPGQLDPEDQDSEEELEIELMGETPKHFAVQVVDMLALHLPPEKLCPLMPMLEEALRSESPYQRKAGLLV
LAVLSDGAGDHIRQRLPPLLQIVCKGLEDP SQVVRNAALFALGQFSENLOPHISSYSREVMPLLLAYLKSVP LG
HTHHLAKACYALENFVENLGPVQPYLPPELMECMLQLLRNPSSPRAKELAVSALGAIATAAQVSLLPYFPAIMEH
LREFLLTGREDLQPVQIQSLETGLVLARAVGEPMRPLAECCQLGLGLCDQVDDADLRCTYSLFAALSGLMGE
LAPHLEQITTLMLLSLRSTEGIVPQYDGSSSFLFDDSDGEEEEELMDEDVEEEDDSEISGYSVENAFFDEKED
TCAAVGEISVNTSVAFLPYMESVFEEVFKLLECPHLNVRKAAHEALGQFCCALHKACQSCPSEPNTAALQAALAR
VVPSYMQAVNRERERQVVMVLEALTGVLRSCGTTLTKPPGRLAELCGVLKAVLQRKTACQDTDEEEEEEDDDQA
EYDAMLEHAGEAIPALAAAAGGDSFAPFFAGFLPLLVCCKTKQGCTVAEKSFAVGTLAETIQGLGAASAQFVSRL
LPVLLSTAQEADPEVRSNAIFGMGVLAEHGGHPAQEHFPKLLGLLFPLARERHDRVDRNICGALARLLMASPTR
KPEPQVLAALLHALPLKEDLEEWVTIGRLFSFLYQSSPDQVIDVAPELLRICSLILADNKIPDPTKAALLLLTF
LAKQHTDSFQAALGSLPVDKAQELQAVLGLS

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FIGURE 1215

GCTCCCTGGGGAACCCAGCAGGCGGCGAAGATCGCGGAGAACAGCGGTGCGCGCCGGCAAGAGCAGCGGGAGCGGC
GCGGGGAAGGGGGCGGTGTCCGCAGAGCAGGTGATTGCTGGCTTCAACCGCCTTCGGCAGGAACAGCGAGGCCTG
GCATCCAAAGCAGCTGAGTTGGAGATGGAGTTGAATGAGCACAGCCTAGTGATCGATACACTGAAGGAGGTAGAT
GAAACTCGTAAGTGCTACCGCATGGTTGGAGGAGTGCTGGTGGAGCGAACTGTCAAAGAGGTGCTGCCCGCTTTG
GAGAACAACAAGGAGCAGATACAGAAGATCATTGAGACACTGACACAGCAGCTTCAGGCAAAGGGAAAAGAACTA
AATGAATTCCGGGAAAAGCACAACATTCGTCTCATGGGAGAAGATGAGAAGCCAGCAGCCAAGGAAAACTCAGAA
GGGGCTGGGGCTAAGGCCAGCTCAGCTGGAGTGTGGTCTCCTAGGGACCAAGGCCTTTGCATTTTTTTCTACCC
TGACTCCCACTTCTAATTTCTCTTTATTGTTATTATTATTATTTCTCTGCTATTGTAATATTTTTTTGTTAATT
AAATGTTTGGTCAGAATCTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1216

MAENSGRAGKSSGSGAGKGAVSAEQVIAGFNRLRQEQRLASKAAELEMELNEHSLVIDTLKEVDETRKCYRMVG
GVLVERTVKEVLPALENNKEQIQKIIETLTQQLQAKGKELNEFREKHNIRLMGEDEKPAAKENSEGAGAKASSAG
VLVS

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FIGURE 1217

GGCTTCCGTAGCGGGAGGGCGAAAGATGGCGGCGGCAGTACTGGGACAGTTGGGTGCGTTATGGATACATAACCT
GAGGAGCCGGGGGAAGCTGGCCTTGGGTGTTTTACCTCAATCATATATCCACACAAGTGCTTCTCTTGACATTTT
TCGAAATGGGAGAAGAAGAATAAAATTGTTTATCTCCACAAGTGCCTGGGAGAACCTCGGAGACCAGCAGAAAT
CTACCACTGTGGAAGACAAATAAAATATAGCAAAGACAAGATGTGGTATTTGGCAAAATTGATACGAGGAATGTC
TATTGACCAGGCTTTGGCTCAGTTGGAATTCAATGACAAAAAGGGGCCAAAATAATTAAAGAGGTTCTCTTAGA
AGCACAAGATATGGCAGTGAGAGACCATAACGTGGAATTCAGGTCCAATTTATATATAGCTGAGTCCACCTCAGG
ACGAGGCCAGTGCTGAAACGCATCCGCTACCATGGCAGAGGTCGCTTTGGGATCATGGAGAAGGTTTATTGCCA
TTATTTTGTGAAGTTGGTGGGAAGGGCCCCCACCTCCACCTGAGCCACCAAAGACGGCAGTTGCCCATGCCAAAGA
GTATATTCAGCAGCTTCGCAGCCGGACCATCGTTCACACTCTATGATGAGGAGATTGAGACTCCACAGTGTATAT
ATTTTGCCATTTATTTTCTAAAAATAAACAAAAATTGAAGGCAAAAAAAAAAAAAAAAAA

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FIGURE 1218

MAAAVLGQLGALWIIHNLRSRGLALGVLPQSYIHTSASLDISRKWEKKNKIVYPPQLPGEPRRPAEIIYHCRRQIK
YSKDKMWYLAKLIRGMSIDQALAQLEFNDKKGAKIIKEVLLEAQDMAVRDHNVEFRSNLYIAESTSGRGQCLKRI
RYHGRGRFGIMEKVYCHYFVKLVEGPPPPPEPPKTAVAHAKKEYIQQLRSRTIVHTL

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FIGURE 1219

GATCCGCCACCATGGCTGAAGGAGAGAATGAAGTGAGATGGGATGGACTCTGCAGCAGAGATTCAACTACTAGGG
AGACAGCATTGGAAAACATTAGGCAAACCATTTTGAGGAAAACCGAGTATCTTCGTTCCGGTGAAAGAAACACCTC
ATCGTCCATCAGACGGGCTTTCAAATACCGAGTCTTCGGATGGGTTGAATAAGCTACTTGCTCATCTGCTTATGC
TTTCTAAGAGGTGTCCCTTCAAAGATGTGAGAGAGAAAAGTGAGTTTATTCTGAAGAGCATCCAGGAACCTGGCA
TTAGAATTCTCGACCACTAGGACAGGGACCAAGCAGATTTCATCCAGAAAAGGAGATCCTCCAAGTGGGGAGTG
AAGACGCACAGATGCATGCTTTATTTGCAGATTCTTTTGCTGCTTTGGGCCGTTTGATAACATTACGTTAGTGA
TGGTTTTCCACCCACAATATTTAGAAAGTTTCTTAAAACTCAGCACTATCTACTGCAATGGATGGGCCGTTAC
CCCTACATTATCGTCACTACATTGGAATAATGGCTGCGGCAAGACATCAGTGCTCCTACTTAGTGAACCTGCATG
TAAATGATTTCCCTTCATGTTGGTGGGGACCCCAAGTGGCTCAATGGTTTAGAGAATGCTCCTCAAAAACCTACAGA
ATTTAGGAGAACCTTAACAAAGTGTTAGCCCATAGACCTTGGCTTATTACCAAAGAACACATTGAGGGACTTTTAA
AAGCTGAAGAGCACAGCTGGTCCCTTGCGGAATTGGTACATGCAGTAGTTTTACTCACACACTATCATTCTCTTG
CCTCATTACATTGGGCTGTGAATCAGTCCAGAAATTCATTGTGATGGTGGCCACACATTGAGACCTCCTTCTG
TTAGCAACTACTGCATCTGTGACATTACAAATGGCAATCACAGTGTGGATGAGATGCCGGTCAACTCAGCAGAAA
ATGTTTCTGTAAGTGATTCTTTCTTTGAGGTTGAAGCCCTCATGAAAAGATGAGGCAGTTACAGGAATGTCGAG
ATGAAGAAGAGGCAAGTCAGGAAGAGATGGCTTCACGTTTTGAAATAGAAAAAGAGAGAGATGTTTGTCTTCT
CTTCAGATGATGAAGAAGTTACACCAGCAAGAGCTGTATCTCGTCATTTTGAGGATACTAGTTATGGCTATAAAG
ATTTCTCTAGACATGGGATGCATGTTCCAACATTTCTGTGCCAGGACTATTGCTGGGAAGATCATGGTTATTCTT
TGGTAAATCGCCTTTATCCAGATGTGGGACAGTTGATTGATGAAAAATTTACATTGCTTACAATCTTACTTATA
ATACAATGGCAATGCACAAAGATGTTGATACCTCAATGCTTAGACGGGCAATTTGGAACCTATATTCAGTGCATGT
TTGGAATAAGATATGATGATTATGACTATGGTGAATTAACCAGCTATTGGATCGTAGCTTTAAAGTTTATATCA
AACTGTTGTTTGCACCTCCTGAAAAGGTTACCAAAAGAATGTATGATAGCTTCTGGAGGCAGTTCAAGCACTCTG
AGAAGGTTTATGTTAATCTGCTTCTTATAGAAGCTAGGATGCAAGCAGAACTCCTTTATGCTCTGAGAGCCATTA
CCCGCTATATGACCTGATGCTTTTCTTCATTAAAGATGATTCTGGAATGATCAGCAGATATAGTCTACAAGGGG
GAAGGTACTAAGCCCCAGGACCAATGGTAGACAAAATAATTCAGAAATCCATTGTGCCATGATTCCCTTTAGTTTC
TGCTATTTTTCTGTGGAAGAACCACTGCTGGCACAAGCAGTGACTGTTTGGCAGCTTCAAGTTTAGAGCTGTGAAG
ACAGGCTGCCATTCACAGTATTTTGCTTTTTGACAGTACAAGATGCTGTGTAAGTGTTTTAAATACAGCAAATAGT
AACTCTCAAATCCTGTTGCTTTTATGTTAAATAAGATAACAAGAATTGGAGCATGCAAAGAATGGGACTTGGAT
AATGACTTAAGCTTTATATGTAAAGAATTTTGAAGATCTTGGTGCTGCTATTCTGCTGGAGGAATGAATAGAT
GGCTGTTTCAGTTAAGCTATTAGTAATAAAGTGAACATTGCTACTATCTGAGCCTACATACATAACTTGTGTGA
TTTCAAATTAACCTTGCAATTATGTGTTAATTTCTTGCATCTAAAAAAGCATAGAATTCCTACTCACACAGCTCA
GCAACAACCAATTTGATGGTAACAGTTAATTTCTTCATTAGTTTTTTAAATTCAGGGTCTGGATATTAAATTA
AAATGGCATTCTTAAAGATTTTCTTCAAAAAGCAATCCTAAATGAAAGTGTGTAATTAAGAAGCTGGCGATC
TTTTGATATGCTGTTTCACAGGATCCTGACACTGGAGGGCAGCTGTCTTGTGCATTACTTGTGTTCCAGCACCA
AAGTTGTGGGACATGTTGCTGTAGACTGCTGCGCAGTCTGGGTGCATTCACTCTCTGCCTCTGCCTGCCTCC
TGGTCCCCACTTTAAAGGCTGTGCAGCTCCTTAAATAATAAAGCTGGAAAATATTTTTAGTCGGGTATCAAATT
TGATTTACAAAACGCTAACTTTGTTTGAATGCAAACAGGTTTGAATAATGTATTAAGTACTTTGTATTCTGG
AAGCGTGAATTGCTTTTGAAGTCTGTCAGTATTACTGGTATTTTTAAATAAAGAAGAATTTTTCTCCAAAAAAA
AAAAAAA

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FIGURE 1220

MAEGENEVRWDGLCSRSTTRETALENIRQTILRKTEYLRSVKETPHRPSDGLSNTESDGINKLLAHLMLSKR
CPFKDVREKSEFILKSIQELGIRIPRPLGQGSPSRFIPEKEILQVGSEDAQMHALFADSFAALGRLDNITLVMVFH
PQYLESFLKTQHLYLLQMDGPLPLHYRHYIGIMAAARHQCSYLVNLHVNDFLHVGDPKWLNGLENAPQKLQNLGE
LNKVLARHPWLITKEHIEGLLKAAEHSWSLAELVHAVVLLTHYHSLASFTFGCGISPEIHCDDGGHTFRPPSVSNY
CICDITNGNHSVDEMPVNSAENVSVSDSFFFEVEALMEKMRQLQECRDEEEASQEEMASRFEIEKRESMFVFSSDD
EEVTPARAVSRHFEDTSYGYKDFSRHGMHVPTFRVQDYCWEDHGYSLVNRLYPDVGQLIDEKFHIAYNLTYNMTA
MHKDVDTSMRLRAIWNYIHCMTGIRYDDYDGEINQLLDRSFKVYIKTVVCTPEKVTKRMYSFWRQFKHSEKVH
VNLLIEARMQAELLYALRAITRYMT

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FIGURE 1221

ATAGTTGACCAGCTTCTGCAGGGGCTCCTCAGTGAGAGAATGGAGGTGAGGTCAGGGACTCCTGCCTTGCTCTG
CCATCACTTCCAGTGATGCCTATTCCTAAGATTGATCGTGTCTGTGCTGAAGATGTTTCCGGAACAACAGAAAG
AGGAATTTGTAGTGTCTGGGTTTCGAGATCCTAGGATTGAGAAGGAGGACTTCTGGCATTCTTACATTGACTATG
AGATATGTATTCTACTAATAGCATGTGTTTTACAATGAAAACATCCTGTGTACGAAGAAGATATAGAGAATTGCG
TGTGGCTGAGGCGAGAGACTCCAAAGTAATGCGTTGCTGGTACAACCTGCCAGAACTTCCATCTAAAAACCTGTTTT
TCAACATGAACAATCGCCAGCACGTGGATCAGCGTCGCCAGGGTCTGGAAGATTTCCTCAGAAAAGTCTACAGA
ATGCACITTTTGTCTTCAGATAGCAGCCTTACCTCTTCTTACAGAGCCATCTGAATTCAGAAGACATTGAGGCGT
GTGTTTCTGGGCAGACTAAGTACTCTGTGGAAGAAGCAATTCACAAGTTTGCCTTAATGAATAGACGTTTCCCTG
AAGAAGATGAAGAAGGAAAAAAGAAAATGATATAGATTATGATTTCAGAAAAGTTCATCCTCTGGGCTTGGACACA
GTAGTGATGACATCAGTTTACATGGATGTAAAGTAAATACAGCTCCGCAGGAATCCGAAAAATAATTCTAATGT
TACTATCTTAGGAATAGCAAATTATGTCCAGTCATAGAGAAGAAAGCTTCATAATAATACATTCTTACCTAAAGC
TCACTGTCTATGATGTTAGGTATTTAAATTCTTAAAGATGTTGGGTGTTTATTAGTGGTATTTTTATGTTGTCTT
ATTTTAGGTAAGCTTCTGTGTAAAGCTAAAAATCCTGTGAATACAATACTATCCTTTACAGGCAGACATTATTGG
TAAACAAGATCTTGCCCTCCAATGAAATGACTTACATGTTTTAAAAAACCGAGTTGGTTTTATTGAATTTAAAAA
GATAGGTAACTAAGTAGCATTTTAAATCAAGATAGAGCATTCTTCTGTATCAGTGGGGCAGTGTTACCATAAA
CACGGTGTATATGTTGTTAAACCCTATGAAGAGTAACAGTGTAGACCAGACTGCCTCTCTCAGATATGTGCTGA
TATTTTGTGGATACCTCCCTGCACTGGCAAAACACTATGCTTTTGGGTGTTAGACTGAAATATTTTAAAGATAT
TTAACCTTTCCAGTATTCTGTTTACGCTTAGATGGAAATGTATCTTATGAATAGAGACATATTAAATAATGTT
TACATCTTAGAAAAACATAGATAGTGTAGTAATATTACTTATAACTGTAATATATAGATTTCAGAAATACATTT
TCATTATCCAAATCAGCTTCAACAATGGTTTCTGGAGACAAATAATTGTTTTTCATTATCATTGTATAATCAG
GTTAATGATTTATTTTTTACTAAATGTGCAATTTCTTATCACTAGATAACTTTTCAGTATCAGTGGTGGTTACTT
ATTACTTAAATCAGAGGAAGGATTTTATAAAGATTAATAAATTTAATTTTACCAATAAATATTTCCCATAAATTAG
AAAAGGATGTCGACTTGCTAATTTTCAAGAAATAATTATTCATTTTTTAAAAAGCCCCTTTTAAAGCATCTACTTGAA
GATTGGTATAATTTTCAAAAATGTCTTTTTTTTTTAGTGTCCCAAAGATATCTTAGATAAACTATTTTGAAGTTC
AGATTTTCAGATGAGGCAACATTTTCTTGAGATAATTACCAAGTTTCATCCATGTTGAATGGTACAAAATATTTT
TGTGAACTAACAGGAAGATATTTTCAGATAACTAGGATAACTTGTGTGCTTTGTTACCCAGCCTAATTGAAGAGT
GGCAGAGGCTACTACAAAAGCAACCTTTTCATTTTCACTAAGAGTTTAAAGCTATTGTATTATTTAAAAAGTCT
TTACAATGCTTGTTTCAAAGAACCAACAGAAAAAAAAGCTAAGAAAACCTGAGAACTAACATTAAAAAATTTAAAT
TTAGAATAAGAATGATTTCTTAAATTTGTCCTTTTTTTTCTTTGGTCTAAAACATTATTAAATTTTTTGTAATATT
TTGATTTAATGTGCTCTTAGATCCTCATTATTTTAAATACAGGAAAAGAAAAGATTTAGTAATTTCTTACCATGCTA
ATATGTAAAGTTTCATGCCATCCAGGCATTTAAGAGCGATCCTCATCCCTTCAGCAATATGTATTTGAGTTCACAC
TATTTCTGTTTTACAGCAGTTTTGAAAAACACATACTATGCCACCAATTGTCATATTATTTTTAGATGATGTAAC
ATAGCCATCAAAATTAATATTATGTAATGCCTAATACTTAGTATGTAATGTCACGAGATCATTTTTACATTAA
CGTGA

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FIGURE 1222

MFPEQQKEEFVSVWVRDPRIQKEDFWHSYIDYEICHTNSMCFMTKTSCVRRRYREFVWLRQLQSNALLVOLPE
LPSKNLFFNMNQRHVDQRRQGLEDFLRKVLQNALLSDSSLHLFLQSHLNSEDIEACVSGQTKYSVEEAIHKFA
LMNRRFPEEDEEGKKENDIDYDSESSSSGLGHSSDDISSHGCKVNTAPQES

[illegible]

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FIGURE 1223B

GGTGAAACCTCGTCTCTACTAAAAATACACAACCTTAGCCAGTCTTGTTGGCGCACGCCTGTAATCTCAGCTACTA
GGGACGCTGAGGCAGGAGAATCGCTTGAACCCAAGAGGTGGAGGTTGCGGTGAGCCAAGATTGCGCCACTGCACT
CCAGCCTGGGCAACAGAGGGAGACTCCATCGCCCCCCTCAACAACAAAAAAGTTTCCCATACACTGGCCTGCC
CCAAAACCCACTAACAATTTTAGCAAAACAGTCCAGGCCAAAGAGGAAGCATTTCATGTTCAATAAGAAACCCAG
CCATTCCGCATGGCTGGTTCCTGAGTGGCTCTGGTGATACTCTCCAGCCACCTGCTGACATTCAGAATCTCAGAC
CTCGGGACTGCTGTTGCGGTACCGTGTGTCTGACACCTGCCAGCAGCCCTTTGCTATCTGCGCGCAGGATGGGGG
TGACTGCCCAGACATTCCTCGCTAGATAGGCTCTGATTTCCGGGGCAGCCTTTCAGATGCGGCAGACATAACAACAC
CTGTACTTTAGAGTTTTAAGGGAAAAAAAATCAGAAGTGCTGGTTAGATAGTAAAACTTAGGATAACTTAGAA
AGGCTAGTTTTAGCTTCCTTTGTGGCTCCCTGGTGCAAAACAATTAGCAGTTATGCAATGGACCTGATTCTAGTT
TATTCTAATTAAGAAGTGAGGCCGGTTTGACTTCGTTCCCTGAATACAATCTTGAGTAACTGGGAAAGTCTGAGT
GAAAGGATGGCCTCATTCTCTTTCTAATCTTGCTGGTTTCAAGATTAGAAAATGGCATTATTTGATCTGAAATGT
TTGAGAAGACACGAATAAAG

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FIGURE 1224

MGAMGAAEPLHSVLWVKRRRCVSLPARALLRWWRSPPEGPSAPGADARSVLVSEIIAVEEKDDCEKHASSGRW
HKMENPFAFTVHRVKVRHHRWKWARVTFWSADEQLCHLWLQTLRGLLESLSRPKHLVFINPFGGKGQKRIY
EKTVAPLFTLASITTEIIITEHANQAKETLYEINTDSYDGIVCVGGDMFSEVLHGVIGRTQQSAGIDPNHPRAV
LVPSTLRIGIIPAGSTDCVCYSTVGTNDAETSALHIIIGDSLAI DVSSVHYHNTLLRYSVSL LGYGFYGD LIKDS
EKKRWMGLVRYDFSGLKTFLSHQYYEGTLSFLPAQHTVGSPRDNKPCRAGCFVCRQSKQQL EEEEEKKALYGLENA
EEVEEWQVTCGKFLAINATNMSCACPRSPGGLSPFAHLGDGSSDLILIRKCSRFNFLRFLIRHTNQEDQFDFTFV
EVYRVKKFHFTSKHVEDEDNDSKEQEKQKFGKICKDRPSCTCSASRSSWNCDGEVMHSPAIEVRVHCQLVRLFAR
GIEEES

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FIGURE 1225

CCGGCTGTCGGTCTCCGTGTCGCCGCCGCCGCCGGCATCGTGGAGCTGGGGCCCCCTTTTGCTGGGAGTTTGT
TAGTCGCCTAGGGTCAGCGGTGACATCCCAAAGGGCAGGCCCGGCAGCCGCCATGGTGGCCAAGGATTACCCCTT
CTACCTCACGGTCAAGAGAGCGAACTGCAGCCTGGAGCTACCTCCGGCCAGCGGTCCGGCCAAGGACGCTGAGGA
GCCTAGTAATAAACGGGTCAAACCCCTTTCCCGAGTCACGTCGCTAGCAAACCTCATCCGCCCGTGAAGGCCAC
GCCATTAAAGCGCTTCAGTCAAACCCTGCAGCGCTCCATTAGCTTCCGCAGTGAGAGCCGCCCTGACATCTCGC
CCCCGACCCTGGTCCAGAAATGCCGCCCTCGAGCACGAAACGGAGAGATAGCAAGCTGTGGAGTGAGACCTT
CGATGTGTGCGTCAATCAGATGCTTACATCCAAGGAAATCAAACGTCAGGAGGCGATCTTTGAGCTTTCCCAAGG
AGAAGAAGACTTGATAGAAGACTTGAAATTAGCAAAAAAGGCCATATCATGACCCCATGTGAAACTCTCCATAAT
GACAGAACAAGAGTTGAATCAAATTTTTGGAACACTGGACTCTCTAATTCCTCTACATGAAGAGCTCCTTAGTCA
GCTTCGAGATGTTAGGAAGCCTGATGGCTCGACTGAACATGTTGGTCCCCTCGTGGGCTGGCTCCCTTGCTT
CAGCTCCTATGATAGCTACTGCAGCAATCAAGTAGCCGCCAAAGCTCTGCTGGACCACAAAAAGCAAGATCACCG
AGTCCAGGATTTCTACAGCGATGTTTAGAATCCCTTTAGCCGCAAACCTAGATCTCTGGAATTTCTCGATAT
TCCAAGAAGCCGCTGGTAAATACCTCTGCTTCTCCGAGAAATCTTGAGGCACACACCAAATGATAATCCAGA
TCAGCAGCACTTGGAAGAAGCTATAAATATCATTCAGGGAATTGTGGCAGAAATCAACACCAAGACTGGTGAATC
TGAATGCCGTATTATAAAGAGCGGCTTCTTTACTTGGAAGAAGGCCAGAAAGACTCCCTGATCGACAGCTCTCG
AGTCTTGTTGTGTCATGGTGAACGAAGAACAATCGGGGCGTGAAACTGCATGTTTTCTGTTCCAAGAAGTGCT
TGTGATCACTCGAGCCGTCACCCACAATGAGCAGCTTTGCTACCAGCTGTACCGTCAGCCAATCCCGTGAAAGA
CCTCTGCTGGAAGACCTCCAGGATGGAGAAGTGAGGCTGGGTGGCTCCCTGCGAGGGGCATTAGCAACAATGA
GAGAATTAATAAATCTTCTCAGAGTCAGTTTCAAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGA
CACTTTCAACAAACAGCAGTGGCTTAAGTGTATTCGTCAAGCCAAAGAAACAGTTTTGTGTGCTGCCGGCAAGC
TGGGGTGCTTGACTCCGAGGGATCGTTCCATAATCCACCACCGGGAGCAGAGAGCTACAGGGAGAAACAAAAT
TGAGCAGATGGACCAATCGGACAGTGAGTCAGACTGTAGTATGGACACGAGTGAGGTCAGCCTCGACTGTGAGCG
CATGGAACAGACAGACTCTTCTGTGGAACAGCAGGCACGGTGAAAGTAACGCTGACAGAGAAGCATGTGCACTT
CGGGAAGCAGGCCTGCATCTTACCTGTACAGTATTTGCATTCCACAGATGGAACGTTTTGGAGAAGCACTTTTTT
ATACTTTTGTGAAAGTATACATGTTGGCCAGTCTCTCGTATCTGTACCTTTGTCCCTAGTACTGTAAGTCCAA
TCTGTCTGTGTAAGCTGGAATCTGTGGCAACTATTACCCTGTGTGTATTTCCAAGTGTCTGGATGGATGGAGA
GGTACTCAAACAAGTTACTTTAGTTGTCTGTGGATTTTAAAAAATAGAAAAAGAAATCTCAAACTACTGTT
TTACATAGATTGTTGAAGAGTCTTCTCTGTGCTTCTGTACCACCTTTCCAGCTCTTAGATGGGTAGCTAA
AGGCACGGAATTTAGACGGCCTTGTAATAGGGCATGAGGAACCTCATCTGTGTATTGGGATGGTATTAGAGAGAG
AATCAGGAAAGACCAACTCATGAAGTGAACCTTGTTGATCTTACTCAACTAGAAAGCTTGAAAACATCCCTGGG
GATTCTGAAGGCTTAATTTTGCAAAGGAGGATGCATTGTCTGAACTTTGCAACTTCATCCAGTGCAAGTTTGATG
CAAGAATGTATTAGGACATAAAATAGAGGCTGACCTTAAAAGGGCCAGGACAGAAGCGGCTGCCAGCTCTGAATC
TTTAACTGAAATGCACATGGCACCAGGAGGTGTCTCATAGTTGGTTGCTAGCCTAAAACATCAGAATAGAACC
CAAAGGGCTTAGGAAGGCCTGCCAGGATAACAAGAAGGCCCTGTATTCAATTGTGTTTCATCTGCCTAGGCCTACT
CATTATTTTAGAGAATGAATGAAGCAACAAGGAAGAGAGAATGACTCTATCGATGACACTGTTTATAGAAACA
CAGGAGAGGAAGAATTTGGAATGAAAAGCACTTCGTCAGAACCTTCTGTGGGAGCCATTGAGAGAAAAGCATGGT
CCAGTGCCCTTCTGAGAAAGGCCAGAGCTTTGGGCTTTCTGCTCTGCTTTTGGGTCGTCAATTTGCCATCTCTGG
TTCTGTGCTATAATCAGAATTGTAATTATGTTCTCCAGAGGCCAATTTCAATTAACCTCTGATTAATTAGAATCAGC
TAGCCAGATTAGTAACCTCTTTGTCCAGCCTTGATTACAGTGCAGGGTAAAGTGCAGACCTTAAAAACAGCTAA
GTACCTAGAAGAGCTCCCTGCAAGTGTAATATTAAGGATGACCTGTGCAAAATTATACCCACACCAGCACTAGT
GGTAATTATTCTAAATTATTGCCAAAAAGTTTTTTTAACTGTCTTCAAGTTTACAGAAAAGAAAGCAGTAAA
TGCATTGATGTCATTTTATTATGTACATATATCATGTGCATTCAAGCTGTGTGACAAGATATATCAATATAAAAA
CAAGGTATATACCTTTATTATTTTTTGAACAAGGATATTGTGATCAATTTTACCCTGTAAAACATATTTCTGTA
TTTATAGGTCTTAAACATGATGAATTTTTTCTATTACAAGTTTATTTAAACTGCTTTCTCAAGTCGTTATTGAT
ACAGCAAGTGAACCTGCTGCAGACAGAAGCAGAGGAAAGCCAAGAACAGCCTTTATTGGTGAAGAAAAGAAATGAA
TGATCTTTGTAGGCGCCATCAGCCACTTTTAGAAGCCATCAGCCAGTGTGTTGGGAAAAGAGGTTTGTCAAGTG
TTGGCCTATGGGAAGGTGGTCAATGAATGTTTGTATGAATGAATGTTTTGTATAATGGCCTTAAACTTTTCTG
GAAGTATTTCAAATAAATTACATTATTAAGTCATCA

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FIGURE 1226

MVAKDYFFYLTVKRANCSLELPPASGPAKDAEEPSNKRVKPLSRVTS LANLIPPVKATPLKRF SQT LQRSISFRS
ESRPDILAPRPWSRNAAPSSTKRRDSKLWSETFDVCVNQMLTSKEIKRQE AIFELSQGEEDLIEDLKLAKKAYHD
PMLKLSIMTEQELNQIFGTLD SLIPLHEELLSQLRDVVRKPDGSTEHVGPILVGWLPCLSSYDSYCSNQVAAKALL
DHKKQDHRVQDFLQRCLES PF SRKLDLWNFLDIPRSRLVKYPLLLREILRHTPNNDNPQQHLEEA INIIQGIVAE
INTKTGESECRYYKERLLYLEEGQKDSLIDSSRVLCCHGELKNNRGVKLVFLFQEVLVITRAVTHNEQLCYQLY
RQPIPVKDLLLEDLQDGEVRLGGSLRGAFSNNERIKNFFRV SFKNGSQSQTHSLQANDTFNKQQWLNCIRQAKET
VLCAAGQAGVLDSEGSFLNPTTGSRELQGETKLEQMDQSDSESDCSMDTSEVSLDCERMEQTDSSCGNSRHGESN
V

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FIGURE 1227

AGAAGGGCAACCTCGTGCTTTCTGCAGAGGAGACCGGAGGGCAGAAGGCAGAGTCCAGGCTTAGACTGCAGTTCC
TCGCTTACCTGTGCAGTCTAATTTTGAGCTGCCTCTTTGTAGTCTTAAAGGCAGGAGCTTCGTGTTGTGGGTCT
GCTAACCCGTACGTTTCCGTGGGCAAGTCGTGTGTACTCCTCGCCATGGCTCAGCTCCAAACACGCTTCTACACT
GATAACAAGAAATATGCCGTAGATGATGTTCCCTTCTCAATCCCTGCTGCCTCTGAAATTGCCGACCTTAGTAAC
ATCATCAATAAACTACTAAAGGACAAAAATGAGTTCCACAAACATGTGGAGTTTGATTTCCTTATTAAGGGCCAG
TTTCTGCGAATGCCCTTGGACAAACACATGGAAGTGGAGAACATCTCATCAGAAGAAGTTGTGGAAATAGAATAC
GTGGAGAAGTGTACCGCACCCAGCCAGAGCAATGCATGTTCCATGATGACTGGATCAGTTCAATTAAAGGGGCA
GAGGAATGGATCTTGACTGGTTCTTATGATAAGACTTCTCGGATCTGGTCCTTGAAGGAAAGTCAATAATGACA
ATTGTGGGACATACGGATGTTGTAAAGATGTGGCCTGGGTGAAAAAGATAGTTTGTCTGCTTATTATTAGT
GCTTCTATGGATCAGACTATTCTCTTATGGGAGTGGAAATGTAGAGAGAAACAAAGTGAAGCCCTACACTGCTGT
AGAGGTCATGCTGGAAGTGTAGATTCTATAGCTGTTGATGGCTCAGGAATAAATTTGCAGTGGCTCCTGGGAT
AAGATGCTAAAGATCTGGTCTACAGTCCCTACAGATGAAGAAGATGAAATGGAGGAGTCCACAAATCGACCAAGA
AAGAAACAGAAGACAGAACAGTTGGGACTAACAAGGACTCCCATAGTGACCTCTCTGGCCACATGGAGGCAGTT
TCCTCAGTTCTGTGGTCAGATGCTGAAGAAATCTGCAGTGCATCTTGGGACCATAACAATTAGAGTGTGGGATGTT
GGGTCTGGCAGTCTTAAGTCAACTTTGACAGGAAATAAAGTGTTAATTGTATTTCTATTCTCCACTTTGTAAA
CGTTTAGCATCTGGAAGCACAGATAGGCATATCAGACTGTGGGATCCCCGAATAAAGATGGTTCTTTGGTGTCTG
CTGTCCCTAACGTCACATACTGGTTGGGTGACATCAGTAAATGGTCTCCTACCCATGAACAGCAGCTGATTCA
GGATCTTTAGATAACATTGTTAAGCTGTGGGATACAAGAAGTTGTAAGGCTCCTCTCTATGATCTGGCTGCTCAT
GAAGACAAAGTTCTGAGTGTAGACTGGACAGACACAGGGCTACTTCTGAGTGGAGGAGCAGACAATAAATTGTAT
TCCTACAGATATTACCTACCACTTCCCATGTTGGGGCATGAAAGTGAACAATAATTTGACTATAGAGATTATTT
CTGTAAATGAAATTGGTAGAGAACCATGAAATTACATAGATGCAGATGCAGAAAGCAGCCTTTGAAGTTTATAT
AATGTTTTTACCCTTCATAACAGCTAACGTATCACTTTTTCTTATTTGTATTATATAATAAGATAGGTTGTGTTT
ATGAAATACAACTGTGGCATACATTCTCTATACAACTTGAAATTAACTGAGTTTTACATTCTCTTT

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FIGURE 1228

MAQLQTRFYTDNKKYAVDDVPFSIPAASEIADLSNIINKLLKDKNEFHKKHVEFDFLIKGQFLRMPLDKHMEVENI
SSEEVVEIEYVEKCTAPQPEQCMFHDDWISSIKGAEWILTGSYDKTSRIWSLEGKSIMTIVGHTDVVKDVAWVK
KDSLSCLLLSASMDQTILLWEWNVERNKKVKAHCCRGHAGSVDSIAVDGSGTKFCSGSWDKMLKIWSTVPTDEED
EMEESTNRPRKKQKTEQLGLTRTPIVTLSGHMEAVSSVLWSDAEEICSAWDHTIRVWDVGSGSLKSTLTGNKVF
NCISYSPLCKRLASGSTDRHIRLWDPRTKDGLVSLSLTSHTGWVTSVKWSPTHEQQLISGSLDNIVKLWDTRSC
KAPLYDLAAHEDKVLSVDWTDTGLLSGGADNKLYSYRYSPTTSHVGA

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FIGURE 1229

TGCGCGTGCGCAGGGATAAGAGAGCGGTCTGGACAGCGCTGGCCGGCGCGCTGTGGGGACAGCATGAGCGGCG
GTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGCTCTGGGCCTGGCGCTGCTGCTGCTCGGCCCTCGGAC
TAGGCCTGGAGGCCGCCGCGAGCCCGCTTTCCACCCCGACCTCTGCCCAGGCCGCGAGGCCCCAGCTCAGGCTCGT
GCCCACCCACCAAGTTCCAGTGCCGCGACCAAGTGGCTTATGCGTGCCCCCTCACCTGGCGCTGCGACAGGGACTTGG
ACTGCAGCGATGGCAGCGATGAGGAGGAGTGCAGGATTGAGCCATGTACCCAGAAAGGGCAATGCCACCGCCCC
CTGGCCTCCCCTGCCCCCTGCACCGGCGTCAGTGACTGCTCTGGGGGAAGTACAAGAACTGCGCAACTGCAGCC
GCCTGGCCTGCCTAGCAGGCGAGCTCCGTTGCACGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACG
GCCACCCAGACTGTCCCGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGGAAGGGGATGCCA
CAACCATGGGGCCCCCTGTGACCCTGGAGAGTGTACCTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGA
CCCTGGAGAGTGTCCCCTCTGTGCGGAATGCCACATCCTCCTCTGCCGGAGACCAGTCTGGAAGCCCCAACTGCCT
ATGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGCAAGCCTGGTCACCGCCACCCTCCTCCTTTGTCTGGCTCC
GAGCCCAGGAGCGCCTCCGCCCACTGGGGTTACTGGTGGCCATGAAGGAGTCCCTGCTGCTGTCAGAACAGAAGA
CCTCGCTGCCCTGAGGACAAGCACTTGCCACCACCGTCACTCAGCCCTGGGCGTAGCCGGACAGGAGGAGAGCAG
TGATGCGGATGGGTACCCGGGCACACCAGCCCTCAGAGACCTGAGCTCTTCTGGCCACGTGGAACCTCGAACCCG
AGCTCCTGCAGAAGTGGCCCTGGAGATTGAGGGTCCCTGGACACTCCCTATGGAGATCCGGGGAGCTAGGATGGG
GAACCTGCCACAGCCAGAACTGAGGGGCTGGCCCCAGGCAGCTCCCAGGGGGTAGAACGGCCCTGTGCTTAAGAC
ACTCCTGCTGCCCCGTCTGAGGGTGGCGATTAAAGTTGCT

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FIGURE 1230

MSGGWMAQVGAWRTGALGLALLLLGLGLGLEAAASPLSTPTSAQAAGPSSGSCPPTKFCRTSGLCVPLTWRC
RDLDCSDGSDEEEECRIEPTQKGQCPPPPGLPCPCTGVSDCSGGTDKKLRNCSRLACLAGELRCTLSDDCIPLTW
RCDGHPDCPDSSDELGCGTNEILPEGDATTMGPPVTLESVTSLRNATTMGPPVTLESVPSVGNATSSSAGDQSGS
PTAYGVIAAAVLSASLVATLLLLSWLRAQERLRPLGLLVAMKESLLLSEQKTSLP

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FIGURE 1231

CGGAAGCAGGAAGTGAGTTTGCGAACGGAGCAGCTGCTGCAGGGGCCCATGGCGGACACCCAGTACATCCTGCCCA
ATGACATCGGCGTGTCTAGCCTGGACTGCCGTGAGGCCTTCCGCCTGCTGTACCCACAGAGCGCCTCTATGCCT
ACCACCTGTCCCGTGCCGCTGGTACGGAGGCCTGGCTGTGCTGCTTCAGACCTCCCCTGAGGCCCCCTACATCT
ATGCTCTGCTCAGCCGCTCTTCCGCGCCAGGACCCGACCAGCTGCGCCAACATGCCCTGGCTGAAGGCCTTA
CCGAGGAGGAGTATCAGGCGTTCCCTGGTCTATGCCGCGGGTGTCTTACTCCAACATGGGCAACTACAAGTCCTTTG
GTGACACCAAGTTTGTTCCTCAACTTGCCCAAGGAAAAGCTGGAACGGGTGATCCTAGGGAGTGAGGCTGCTCAGC
AGCACCAGAAGAAGTCAGGGGCCTCTGGCAGACCTGCGGGGAGCTTATGTTCTCTCTGGAGCCAAGGCTTCGAC
ACCTCGGACTGGGGAAGGAGGGAATCACCACCTATTCTCTGGGAATTGTACCATGGAAGATGCCAAATTGGCCC
AGGACTTTCTGGACTCACAGAACCCTCAGTGCCTACAACACCCGGCTCTCAAAGAGGTGATGGAGAAGGGAAGC
CCTACTACGAGGTGCGGCTGGCTTCTGTGCTTGGCTCAGAGCCTTCCCTGGACTCTGAGGTGACTTCCAAGCTGA
AGAGCTATGAATTCCGGGGAAGCCCTTTCAGGTGACCCGGGGGACTACGCGCCCATCCTCCAGAAGGTGGTGG
AGCAGCTGGAGAAAGCCAAGGCCTATGCAGCCAACAGCCACCAGGGGCAGATGCTGGCCAGTATATAGAGAGCT
TCACCCAGGGCTCCATCGAGGCCCAAGAGGGGCTCCCGCTTCTGGATCCAGGACAAAGGCCCATCGTGGAGA
GTTACATCGGGTTTCATCGAGAGCTACCGCGACCCCTTTGGTTCCCGAGGAGAATTTGAAGGTTTCGTAGCTGTGG
TGAACAAGGCCATGAGTGCCAAGTTTGAGCGGCTGGTGGCGAGCGCAGAGCAGCTGCTGAAGGAGCTGCCCTGGC
CCCCAACCTTTGAGAAGGACAAGTTCCTCACCCCTGACTTCACCTCCCTGGATGTTCTACCTTCGCTGGCTCCG
GCATCCCTGCCGGCATCAACATCCCCAACTACGATGATCTGAGGCAGACGGAAGGCTTTAAGAACGTGTCTGCTGG
GGAATGTGCTGGCTGTGGCCTACGCCACGACGCGGAGAGCTTACCTTCTGGAGGAGGATGACAAGGACCTGT
ACATCTCTGGAAGGGGCCCTCCTTCGATGTGCAGGTGGGCTGCACGAGCTGCTGGGCCATGGCAGTGGCAAGC
TCTTCGTACAGGACGAAAAGGAGCATTCAACTTTGACCAGGAAACAGTGATCAACCCAGAGACGGGCGAGCAGA
TTCAGAGCTGGTATCGGAGCGGGGAGACCTGGGATAGCAAGTTCAGCACCATCGCCTCCAGCTACGAAGAGTGCC
GGGCTGAGAGCGTGGGTCTCTACCTCTGTCTCCACCCGCAAGTGCTGGAGATCTTTGGCTTTGAGGGGGCTGATG
CGGAGGACGTGATCTACGTGAAGTGGCTCAACATGGTTCCGGCCGGGCTGCTCGCTCTGGAGTTCTACACACCTG
AGGCCTTCAACTGGCGACAGGCCCATATGCAGGCCCGGTTTGATGCTGAGAGTCTTGCTGGAGGCTGGCGAGG
GACTCGTTACCATCACTCCACACAGGCTCCGATGGGCGCCAGATGCCCGGCTCCGCTCGACCGCAGCAAGA
TCCGGTCTGTGGGCAAGCCTGCTCTAGAGCGCTTCTGCGGAGACTTCAGGTGCTGAAGTCCACAGGGGATGTGG
CCGGAGGGCGGGCCCTGTACGAGGGGTATGCAACGGTCACTGATGCGCCCCCGAGTGCTTCTCACCTCAGGG
ACACGGTGCTGCTGCGTAAGGAATCTCGGAAGCTCATTGTTTCAGCCCAACACTCGCCTTGAAGGCTCAGACGTGC
AGCTTCTGGAATACGAGGCGTCAGCTGCTGGCCTCATCCGATCCTTCTCTGAGCGTTTCCAGAGGATGGACCCG
AGTTGGAGGAGATCCTCACACAGCTGGCCACAGCCGATGCCCGATTCTGGAAGGGCCCCAGTGAGGCCCCATCTG
GCCAAGCTTGAGGAAGATGTGTGGCCTTGCCCCCAATTCCATCAGACCAAGGCTGCAAGTGGCCCTCCATTCTGTG
TGTGATTTTACGGGCTGGGGAGGGGAGGGGCAGGAGCTTGACCTTGGTACTACCTCAGCTGAGGGTGGTGACA
CAACCCCTTCCATTTGTCTAGCACTTTCCAGCCTGCCAATTGCTTCCCCTCTGTGATCTCATTTCTGCACTGC
CATACGTGGAGTGAGCAAGACAGGGCTTACCATCCTGTCTACCAGATGAGGAAATGGCAGTTCTGAGAAGTCACT
GGTCTAGATCCCGCAGGTGGCACGTGACAGCTAGGGTTCAAACGTTCTCACCAAATCCAATGCTCCTCACATAT
TAATTTTATAACCAGACAAATAAATATTAGAGACAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1232

MADTQYILPNDIGVSSLDCREAFRLLSPTERLYAYHLSRAAWYGGGLAVLLQTSPEAPYIYALLSRLFRAQDPDQL
RQHALAEGLTEEEYQAFVLVYAAGVYSNMGNYKSFGDTKFVNLPKKLERVILGSEAAQQHPPEVRGLWHTCGEL
MFSLEPRRLRHLGLGKEGITTTFSGNCTMEDAKLAQDFLDSQNL SAYNTRLFKEVDGEGKPYEVR LASVLGSEPS
LDSEVTSKLSYEFGRSPFQVTRGDYAPILQKVVEQLEKAKAYAANSHQGQMLAQYIESFTQGSIEAHKRGRSFRW
IQDKGPIVESYIGFIESYRDPFGSRGEFEGFVAVVNKAMSAKFERLVASAEQLLKELPWPPTFEKDKFLTPDFTS
LDVLT FAGSGIPAGINIPNYDDL RQTEGFKNVSLGNVLAVAYATQREKLT FLEEDDKDLYILWKGPSFDVQVGLH
ELLGHGSGKLFVQDEKGAFNFDQETVINPETGEQIQSWYRSGETWDSKFSTIASSYEECRAESVGLYLCLHPQVL
EIFGFEGADAEDVIYVNWLN MVRAGLLALEFYTPEAFNWRQAHMQARFVILRVLLEAGEGLVTITPTTGSDGRPD
ARVRDRSKIRSVGKPALERFLRRLQVLKSTGDVAGGRALYEGYATVTDAPPECFLT LRDTVLLRKESRKLIVQP
NTHLEGS DVQLLEYEASAAGLIRSF SERFPEDGPELEEILTQLATADARFWKGPSEAPSGQA

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FIGURE 1233

CTGATGAAAGTGCTTCCAAACTGAAAATTGGACGTGCCTTTACGATGGTAAGCGTTAACAGCTCCCACTGCTTCT
ATAATGACTCCTTTAAGTACACTTTGTATGGGTGCATGTTACGCATGGTGTTTGTGCTTGGGTTAGTATCCAATT
GTGTTGCCATATACATTTTCACTGCGTCCTCAAAGTCCGAAATGAAACTACAACCTACATGATTAACTTGGCAA
TGTCAGACTTGCTTTTGTCTTTTACTTTACCTTCAGGATTTTTTACTTCACAACACGGAATTGGCCATTGGAG
ATTTACTTTGTAAGATTTCTGTGATGCTGTTTTATACCAACATGTACGGAAGCATTCTGTTCTTAACCTGTATTA
GTGTAGATCGATTTCTGGCAATTGTCTACCCATTTAAGTCAAAGACTCTAAGAACCAAAAGAAATGCAAAGATTG
TTTGCACTGGCGTGTGGTTAACTGTGATCGGAGGAAGTGCACCCGCCGTTTTTGTTCAGTCTACCCACTCTCAGG
GTAACAATGCCTCAGAAGCCTGCTTTGAAAATTTTCCAGAAGCCACATGGAACCATATCTCTCAAGGATTGTAA
TTTTCATCGAAATAGTGGGATTTTTTATTCCTCTAATTTTAAATGTAACCTGTTCTAGTATGGTGCTAAAAACTT
TAACCAAACCAGTTACATTAAGTAGAAGCAAAATAAACAAAACCTAAGGTTTTAAAAATGATTTTTGTACATTGA
TCATATTCTGTTTCTGTTTGTCTTACAATATCAATCTTATTTTATATTCTCTTGTGAGAACACAAACATTTG
TTAATTGCTCAGTAGTGGCAGCAGTAAGGACAATGTACCCAATCACTCTCTGTATTGCTGTTTCCAACCTGTGTT
TTGACCTATAGTTTACTACTTTACATCGGACACAATTCAGAATTCAATAAAAATGAAAACTGGTCTGTCAGGA
GAAGTGACTTCAGATTCTCTGAAGTTCATGGTGCAGAGAATTTTATTCAGCATAACCTACAGACCTTAAAAAGTA
AGATATTTGACAATGAATCTGCTGCCTGAAATAAAACCATTAGGACTCACTGGGACAGAACTTTCAAG

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FIGURE 1234

MVSVNSSHCFYNDSFKYTLYGCMFSMVFLGLVSNCAIYIFICVLKVRNETTTYMINLAMSDLLFVFTLPFRIF
YFTTRNWPFGDLLCKISVMLFYTNMYGSILELTCSVDRFLAIVYPFKSKTLRTKRNAKIVCTGVWLTVIGGSAP
AVFVQSTHSQGNNAEACFENFPEATWKTYLSRIVIFIEIVGFFIPLILNVTCSMVLKTLTKPVILSRSKINKT
KVLKMIFVHLIIFCFCFVPYNINLILYSLVRTQTFVNCSVVAAVRTMYPITLCIAVSNCCFDPIVYYFTSDTIQN
SIKMKNWSVRRSDFRFSEVHGAENFIQHNLQTLKSKIFDNESAA

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FIGURE 1235

AGAAGGCCTCGCACAAAACACTGTACAAACCCGAAAGGAAGTCTGAGAGACGAACCGCCTTCCTCCCTGAAGCTT
CTAGAAGTGGAGCAGAAAAGAAGGTGTGGCCAGGGCCAGCCCCGCCTCCTCCCGGGCGGAAGCTGTGTCAAGTTG
CCGGAAGTCGGCGTGAGGTGGGGCTTATGCGGCGGCGTGGTGAAATAGATATGGCGACCGAGGGGGATGTGGAGC
TGGAGTTGGAGACTGAGACCAGTGGACCAGAGCGGCCTCCGGAGAAGCCACGGAAACATGACAGCGGTGCGGCGG
ACTTGGAGCGGGTCACCGACTATGCAGAGGAGAAGGAGATCCAGAGTTCCAATCTGGAGACGGCCATGTCTGTGA
TTGGAGACAGAAGGTCCCGGGAGCAGAAAGCCAAACAGGAGCGGGAGAAAGAACTGGCAAAAGTCACTATCAAGA
AGGAAGATCTGGAGCTAATAATGACTGAGATGGAGATATCTCGAGCAGCAGCAGAACGCAGTTTGGGGGAACACA
TGGGCAACGTGGTAGAGGCGCTTATTGCCCTAACCAACTGATGCGTGCTTTCTCAAATATACCTACTGGATTAAT
TTATGGCAATAAAATTTTTTTTTTGTCTTTTTCAGTTTTATCATCTTGGGTCAAGTAGAGTGTATACTATATCCTA
TGTTGTGGAGAATTTATATGTTGGAGACTAAGTGAATTTAAGTGACCCATTAAATCTAGCACACCTGTATGAAA
AATCAGTGTAGAAGAATACCTCATGTGCAGATGCTAGGTGGCAGGCCAGTCTCATTCTGACTAGCTCTCAAC
AGTATTCAAGGTACATCTGGAGTCTCAGCAGAGTTACTGTACTCAAATGGCATGTGTCTCCAAGACAGCTTATGA
ATATCTAAAAGGCCAGCTACCTGCCTAGGAGCCACTATATATATAGATAGATGTAGGTTATGAACCCAGTTCATA
GGCCACCTTGAGTTAGAATTTTGGTACCTACAACATGCTTGATTTGAGTGATTAAAAAAATAATTTGGCTGG
GTGCTGTGGCTCAGCCTCTAATCCCAGCACTTTGGGAGGTGAGGCAGGTAGATCACGAGGTCAGGAATTCAG
ACCAGCCTGGCCAACATGTGAAACCCCGTCTCCACTGAAAATAGAAAAATTAGCTGGGCATGGTGGTGGGCGCCT
ATAATCCCAGCTATTCTGGAGGCTGAGGCAGGAATCGCTTGAAATTGGAAAGCAGAGGTTGCAGTGAGCTGAGAT
CACACTACTGTACTACTGTACTCCAGCCTGGGGGAAAGAGTGAACTCCATCTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1236

MATEGDVELELETETSGPERPPEKPRKHDSGAADLERVTDYAEKEIQSSNLETAMSVIGDRRSREQKAKQEREK
ELAKVTIKKEDLELIMTEMEISRAAAERSLREHMGNVVEALIALTN

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FIGURE 1237

ACCTCCGGAAACCGTAGATTCCGGGCGGTCCGGAGCCGCCGGGAGCTGTAGTTCTCCGCGGGCTCAGAGAAGTAGG
CAGAGAGCGGACCTGGCGGCCGGGCAGCATCGCGGGGCTGGAGCTCTTGTCGGACCAGGGCTACCGGGTGGACGG
GCGGCGCGCCGGGGAGCTGCGCAAGATCCAGGCGCGGATGGGCGTGTTCGCGCAGGCTGACGGCTCGGCCTACAT
TGAGCAGGGCAACACCAAGGCACTGGCTGTGGTCTACGGCCCGCACGAGATCCGGGGCTCCCGGGCTCGAGCCCT
GCCGGACAGGGCCCTAGTGAAGTGTCAATATAGTTCAGCGACCTTCAGCACAGGTGAGCGCAAGCGACGGCCACA
TGGGGACCGTAAGTCCTGTGAGATGGGCCTGCAGCTCCGCCAGACTTTCGAAGCAGCCATCCTCACACAGCTGCA
CCCACGCTCCCAGATTGATATCTATGTGCAGGTGCTACAGGCAGATGGTGGGACCTATGCAGCTTGTGTGAATGC
AGCCACGCTGGCAGTGCTGGATGCCGGGATACCCATGAGAGACTTTGTGTGTGCGTGCTCAGCTGGCTTCGTGGA
CGGCACAGCCCTGGCGGACCTCAGCCATGTGGAGGAAGCAGCTGGTGGCCCCCAGCTGGCCCTGGCCCTGCTGCC
AGCCTCAGGACAGATTGCGCTGCTTGAGATGGATGCCCGGCTGCACGAGGACCACCTGGAGCGGTGTGGAGGC
TGCTGCCCAGGCTGCCCAGATGTGCACACCCTCTTAGATCGAGTGGTCCGGCAGCATGTGCGTGAGGCCTCTAT
CTTGCTGGGGGACTTGACCACCCAGCCACCCATGTCCAGAATAAACCCCTCCTTGCCACACXAAAAAAAAA

1369/2682
FIGURE 1238

MAGLELLSDQGYRVDGRRAGELRKIQARMGVFAQADGSAYIEQGNTKALAVVYGPHEIRGSRARALPDRALVNCQ
YSSATFSTGERKRRPHGDRKSCMGLQLRQTFEAAILTQLHPRSQIDIYVQVLQADGGTYAACVNAATLAVLDAG
IPMRDFVCACSAGFVDGTALADLSHVVEEAAGGPQLALALLPASGQIALLEMDARLHEDHLERVLEAAAQAARDVH
TLLDRVVRQHVREASILLGD

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FIGURE 1239

TCGCTTTGTGATTCTTGATCCGGAACCTTTGTACCCAGGAACCCCGGAAGAGGTAGCTCACGCGATAGAAACGTG
TTCGCTTGCCAGAAGAAGGGAAGGCGCGAGTGAGGAAAGGAGGTACTGTAGATGCCCTCCAAATCCTTGTTAT
GGAATATTTGGCTCATCCCAGTACACTCGGCTTGGCTGTTGGAGTTGCTTGTGGCATGTGCCTGGGCTGGAGCCT
TCGAGTATGCTTTGGGATGCTCCCCAAAAGCAAGACGAGCAAGACACACAGATACTGAAAGTGAAGCAAGCAT
CTTGGGAGACAGCGGGGAGTACAAGATGATTCTTGTGGTTCGAAATGACTTAAAGATGGGAAAAGGAAAGTGGC
TGCCCAGTGCTCTCATGCTGCTGTTTCAGCCTACAAGCAGATTCAAAGAAGAAATCCTGAAATGCTCAAACAATG
GGAATACTGTGGCCAGCCCAAGGTGGTGGTCAAAGCTCCTGATGAAGAAACCTGATTGCATTATTGGCCCATGC
AAAAATGCTGGGACTGACTGTAAGTTTAATTCAAGATGCTGGACGTACTCAGATTGCACCAGGCTCTCAAACGT
CCTAGGGATTGGGCCAGGACCAGCAGACCTAATTGACAAAGTCACTGGTCACCTAAAACCTTTACTAGGTGGACTT
TGATATGACAACAACCCCTCCATCACAAGTGTTTGAAGCCTGTCAGATTCTAACAAACAAAGCTGAATTTCTTCA
CCCAACTTAAATGTTCTTGAGATGAAAATAAAACCTATTCCCATGTTCTAAAAAAA

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FIGURE 1240

MPSKSLVMEYLAHPSTLGLAVGVACGMCLGWSLRVCFGMLPKSKTSKTHDTSEASILGDSGEYKMILVVRNDL
KMGKGKVAAQC SHA AVSAYKQIQRRNPEMLKQWEYCGQPKVVVKAPDEETLIALLAHAKMLGLTVSLIQDAGRTQ
IAPGSQTVLGIGPGPADLIDKVTGHLKLY

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FIGURE 1241

GGCACGAGGCCAGGCGACTCCGGGACAGGGGTCTCGGCCGTGCGCGTCA**ATG**GTTTCGCGCGTGCAGCTCCCGCC
TGAGATCCAGCTGGCTCAGCGCCTGGCGGGGAATGAGCAGGTGACCCGGGACCGGGCGGTGAGGAAGCTCCGGAA
ATACATCGTCGCCAGGACTCAGCGGGCCGAGGTGGTTTTACGCACGACGAGCTGCTGAAGGTGTGGAAAGGACT
GTTTTATTGCATGTGGATGCAGGACAAGCCACTCCTCCAGGAAGAATTAGGAAGGACTATTCCCAGCTCGTTCA
TGCTTTTCAGACCACGGAGGCGCAGCACCTGTTTCCTTCAGGCCTTCTGGCAGACCATGAATCGCGAGTGGACGGG
CATTGACAGGCTGCGCCTGGATAAATTCTACATGCTCATGCGGATGGTCTGAACGAGTCTTGAAGGTTCTGAA
GATGCAAGGCTGGGAAGAAAGACAGATCGAGGAGCTGCTAGAGCTGCTGATGACTGAGATCCTGCACCCAGCAG
CCAGGCCCCAACGGTGTGAAGAGCCACTTCATCGAGATCTTCTGGAGGAGCTGACCAAAGTGGGCGCCGAGGA
GCTTACGGCAGACCAGAACCTGAAGTTCATCGACCCCTTCTGCAGAATCGCTGCCCCGACCAAGGATTCTTGTT
TTTGAACAACATCACTCGAGGCATCTTTGAGACGATTGTGGAGCAGGCCCCGCTTGCCATTGAAGACCTCCTGAA
TGAAGTGGACACACAGGATGAGGAGGTGGCGTCGGACAGTGATGAGTCTCTGAGGGTGGTGAGCGTGGAGACGC
GCTGTCCAGAAAGAGGTCTGAGAAGCGCCCGCAGGCTCCATCTGCAGGGCTGAACCTGAGGCTGGTGAGGAGCA
GGCAGGTGACGACAGGGACAGTGGCGGCCCGTCTCCAGTTTGACTACGAGGCAGTTGCTAACAGACTGTTTGA
AATGGCCAGCGCCAGAGCACCCCTTCTCAGAACAGAAAGCGTCTCTACAAAGTGATCCGGAAGCTGCAGGACCT
GGCAGGAGGCATTTTCCCTGAAGATGAGATCCAGAGAAGGCTGCAGGCGCTGCTTGAAGGGAGGCGGCAGAA
GAAGACGAAGAAGCAGAAGCGTCTGCTCAGGTTGCAGCAGGAGAGAGGGAAGGTGAGAAGGACCCCCGAGCCC
GGGCATGGAGAGGAAGAGGAGCAGGAGGAGGGGTGTAGGGGCCGACCCCGAGGCGCGGGCAGAGGCTGGTGAGCA
GCCAGGCACAGCTGAGCGGGCCCTGCTCCGAGATCAGCCCAGGGGCCGTGGCCAGAGAGGGGCTCGCCAGAGAAG
GAGGACACCTCGGCCCTGACCAGTGCCCGAGCAAAGGCGGCCAATGTCCAGGAGCCGAGAAAGAAGAAGAAACG
CAGGGAG**TGAT**GTGGCCGGGCCAAGGACAGGCAGGGAGGGAGGCCAGGCCTCGCTTGCACCGCGGGACGAGGCTG
ACCGGGCTGTTCTGTAGACTCAGGACCGTGGCTCCAGAACTCTGTGCCAGGCGGGAGGGAAGGGCGGCACTGGA
GAGATGGGCCCATCATTAGGGGCCAGCATCCAGGAAGTGGACCTTTCCCGAGGCCTCCGCCTGTGGCTGTGAT
GACCTTGGGCCAGAAGGTCAAACCTCCGAAGACTGAAACTCTGCCTGCAGCAGGACTGGCTGCCCTGTGTGGGG
GGTTCAGAAAAATAAAATGCCGCGCAGCCCTTGCCAGGGAAGTGTGCTTCGGGTGTGTCTACGGACGTGTGGGA
GGTGGCAGGCGCCAGCCTCCGAGCAGTGTGGTGGTTTATATTCACTGTTTGTGGAAAAATCTTGAAGACATTTCT
CCTTTACAGAACTGCCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTTTTGCTTCCCCCTCAATCTGGGGTC
TAGAGTTGTGCAGGGAATTCAGCTCCAGTAAGGCCTGGATTGCCCGGGGTGAGCGTGTGTGTGGTGGGAAGACCT
GGCTTCCGCGAGAGCCTTGTTCTGGAGGCAGGAGCGCCCCGCCATCCTGGGTACCCGCGGGTCCGAGGCTGCG
CACCTCTTTCCCTCAGCCAGGTCACCCCTCAGCGTCTCCCTGCCCTCTCCCCTTCACACCTGCTGGAGCCTGTG
AGGGAGGTGGCGGGTCCCCACTGTGGCGACGGAGAGCTGACAGTAGCCCAGGGCTTTCTACCTGCATGGAACAA
GGCCTGTCTGCCGCCAGCGCTGTGGCCACAGCCTGCATAGGTGACAAGGGGCCGCTGCGTGTGGTTTTGCCCGCA
TCTTCTGTTCCATGGGTGCCAGCCAGCCAGGCCGTGTGGGATCCAGCGAGAGGCCAGGGCTTGGAGTGGGCCTG
GGACCAGGAAGGACCTCTAGGCTGTGGCTGGCCTTGTGCAGACCTGGACTGCATCCGGTTCCCCAAAGCCCTGC
TGCATTGAGTGTCCCCAACCCCGGGCAGGTGGCACCTGGTGACACCTCCTTCAGTCCCACTCAGCTGGGCGGC
CGGGGCAGGCTTAGGGCACAGTTAGGGGCCAAGGAGAGGGAAGGCCAGGGCCCCGTGTTCTAGGGGTAGGGTTCT
TTCCCCAAAGGAACCTTAAAAAGACAAGCGTGGCCAGGCACAGTGGCTCACACCTGTAATCCCAGCACTTTGGGAG
GCCGAGGTGGCCAGATCACCTGAGGTGAGGATTTGAGACCAGACTGACCAACATGGAGAAACCCATCTCTACT
AAAATACAAATTAGCCAGGCGTGGTGGCACATGCCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATT
GCTTGAACCTGGGAGGCAGAGGTTGTGGTGAAGTACACGCCATGCACTCCAGCCTGGGCAACGAGAGGGA
AACTCTGTTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1242

MVSRVQLPPEIQLAQRLAGNEQVTRDRAVRKLRKYIVARTQRAAGGFTHDELLKVWKGLFYCMWMQDKPLLQEEL
GRTISQLVHAFQTTEAQHLFLQAFWQTMNREWTGIDRLRLDKFYMLMRMVLNESLKVLKMQGWEERQIEELLELL
MTEILHPSSQAPNGVKSHFIEIFLEELTKVGAEELTADQNLKFIDPFCRIAARTKDSLVLNNITRGIFETIVEQA
PLAIEDLLNELDTQDEEVASDSDESSEGGGERGDALSQKRSEKPPAGSICRAEPEAGEEQAGDDRDSSGGPVLQFDY
EAVANRLFEMASRQSTPSQNRKRLYKVIRKLQDLAGGIFPEDEIPEKACRRLLEGRRQKKTKKQKRLRLRQQERG
KGEKEPPSPGMRKRSRRRGVGADPEARAEAGEQPGTAERALLRDQPRGRGQRGARQRRRTPRPLTSARAKAANV
QEPEKKKKRRE

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FIGURE 1243

GGCGCTCGCAGAGCCGGAAGAAGTGCTGTAAGGGACGCTCGGGGGACGCTGTTCCCTGAGGTGTCGCCGCCTCCC
TGTCCTCGCCCTCCGCGGTGGGGGAGAAACCCAGGAGCGAAGCCCAGAGCCCGCGGCGCGCCGGCGGACGAACG
AGCGCGCAGCAGCCGGTGCGCGGCCGCGGCGAGGGCGGGGGAAGAAAAACACCCTGTTTCCCTCTCCGGCCCCAC
CGCGGATCATGTACCAGGATTATCCCGGGAACTTTGACACCTCGTCCCGGGGCGAGCAGCGGCTCTCCTGCGCAGC
CCGAGTCTACTCCAGCGGCGGCGGCGGCCAGCAGAAATTCCGGGTAGATATGCCTGGCTCAGGCAGTGCATTCA
TCCCCACCATCAACGCCATCACGACCAGCCAGGACCTGCAGTGGATGGTGCAGCCCACAGTGATCACCTCCATGT
CCAACCCATACCCTCGCTCGCACCCCTACAGCCCCCTGCCGGGCTGGCCTCTGTCCCTGGACACATGGCCCTCC
CAAGACCTGGCGTGATCAAGACCATTGGCACACCCTGGGCGCGAGGAGGAGAGATGAGCAGCTGTCTCCTGAAG
AGGAGGAGAAGCGTCGCATCCGGCGGGAGAGGAACAAGCTGGCTGCAGCCAAGTCCCGGAACCGACGCCGGGAGC
TGACAGAGAAGCTGCAGGCGGAGACAGAGGAGCTGGAGGAGGAGAAGTCAGGCCTGCAGAAGGAGATTGCTGAGC
TGCAGAAGGAGAAGGAGAAGCTGGAGTTCATGTTGGTGGCTCACGGCCCAGTGTGCAAGATTAGCCCCGAGGAGC
GCCGATCGCCCCAGCCCCCTGGGCTGCAGCCCATGCGCAGTGGGGGTGGCTCGGTGGGCGCTGTAGTGGTGAAC
AGGAGCCCCCTGGAAGAGGACAGCCCCCTCGTCTCTCGTCGGCGGGGCTGGACAAGGCCAGCGCTCTGTCTCAAGC
CCATCAGCATTGCTGGGGGCTTCTACGGTGAGGAGCCCCCTGCACACCCCCATCGTGGTGACCTCCACACCTGCTG
TCACTCCGGGCACCTCGAACCTCGTCTTACCTATCCTAGCGTCTTGAGCAGGAGTCACCCGCATCTCCCTCCG
AATCTGCTCCAAGGCTCACCGCAGAAGCAGTAGCAGCGGGGACCAATCATCAGACTCCTTGAACCCCCACTC
TGCTGGCTCTGTAAACCCAGTGACCTCCCTCCCCAGCTCCGGAGGGGGTCTCCTCGCTCCTCCTTCCCAGGGAC
CAGCACCTTCAAGCGCTCCAGGGCCGTGAGGGCAAGAGGGGGACCTGCCACCAGGGAGCTTCTGGCTCTGGGG
ACCCAGGTGGGACTTAGCAGTGAGTATTGGAAGACTTGGGTGATCTCTTAGAAGCCATGGGACCTCCTCCCTCA
TTCATCTTGAAGCAAATCCCATTTCTTGAAAAGCCTTGAGAACTCGGTTTGGTAGACTTGGACATCTCTCTGG
CTTCTGAAGAGCCTGAAGCTGGCCTGGACCATTCTGTCCCTTTGTTACCATACTGTCTCTGGAGTGATGGTGTG
CTTCCCTGCCCCACCACGCATGCTCAGTGCCTTTTGGTTTACCTTCCCTCGACTTGACCTTTTCTTCCCCCAGC
GTCAGTTTCACTCCCTCTTGGTTTTTATCAAATTTGCCATGACATTTTCATCTGGGTGGTCTGAATATTAAAGCTC
TTCATTTCTGAAA

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FIGURE 1244

MYQDYPGNFDTSSRGSSGSPAHAESYSSGGGGQQKFRVDMPGSGSAFIPTINAITTSQDLQWMVQPTVITSM SNP
YPRSHPYSPPLGLASVPGHMALPRPGVIKTIGTTVGRRRRDEQLSPEEEEKRRIRRRERNKLAAKCRNRRRELTE
KLQAETEELEEEKSGLQKEIAELQKEKEKLEFMLVAHGVPCKISPEERRSPPAPGLQPMRSGGGSVGAVVVKQEP
LEEDSPSSSSAGLDKAQRSVIKPI SIAGGFYGEELHTPIVVTSTPAVTPGTSNLVFTYPSVLEQESPASPSESC
SKAHRSSSSGDQSSDSLNSPTLLAL

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FIGURE 1245

AATTATATATTTTTACTCTATGTTTCTCTACATGTTTTTTTCTTTCCGTTGCTGGCGGAAGAGGCACGTGCGCTG
CTGAATGGAGCTGGTCGCTGGTTGCTACGAGCAGGTCCTCTTTGGGTTGCTGTACACCCGGAGCCCAAGGCTTG
CGCGGACCACGAGCAATGGACTCTTGTGGCTGACTTCACTCACCATGCTCACACTGCCTCCTTGTGTCAGCAGTAGC
TGTAATAGTCGTTTTGTGGTCACTGGGAGCAAAGATGAAACAATTCACATTTATGACATGAAAAAGAAGATTGA
GCATGGGGCTCTAGTGCACTACAGTGGTACAATAACTTGCCTGAAATTCTATGGCAACAGGCATTTAATCAGTGG
AGCGGAAGATGGACTCATCTGTATCTGGGATGCAAAGAAATGGGAATGCCTGAAGTCAATTAAAGCTCACAAAGG
ACAGGTGACCTTCCTTTCTATTACCCATCTGGCAAGTTGGCCCTGTCGGTTGGTACAGATAAACTTTAAGAAC
GTGGAATCTTGTAGAAGGAAGATCAGCATTCTATAAAAAATATAAAACAAAATGCTCACATAGTAGAATGGTCCCC
AAGAGGAGAGCAGTATGTAGTTATCATACAGAATAAAATAGACATCTATCAGCTTGACACTGCATCCATTAGTGG
CACCATCACAAATGAAAAGAGAATTTCTCTGTAAATTTCTTTTTCAGAGTCTGTCTTGCAGTGGCTGGAGATGA
AGAAGTTATAAGGTTTTTTGACTGTGATTCACTAGTGTGCCTCTGCGAATTTAAAGCTCATGAAAACAGGGTAAA
GGACATGTTTCAGTTTTGAAATTCAGAGCATCATGTTATTGTTTCAGCATCGAGTGATGGTTTCATCAAAATGTG
GAAGCTTAAGCAGGATAAGAAAGTTCCCCCATCTTTACTCTGTGAAATAAACTAATGCCAGGCTGACGTGTCT
TGGAGTGTGGCTAGACAAAGTGGCAGACATGAAAAGCCTTCTCCAGCTGCAGAGCCTTCTCCTGTAAGTAAAGA
ACAGTCCAAAATTGGCAAAAAGGAGCCTGGTGACACAGTGCACAAAGAAGAAAAGCGGTCAAACCTAACACAAA
GAAACGCGGTTTAACAGGTGACAGTAAGAAAGCAACAAAAGAAAGTGGCCTGATATCAACCAAGAAGAGGAAAT
GGTAGAAATGTTGAAAAGAAGAGGAAAAAGAAGAAATAAAAAACAATGCAGTGAATCACAGATGTCTCCTGAAA
GAACTCTTTTAGATGAAATCATTCTACTCAAATGTACCTTAATTTTTTTTTTCCCTGAGTAAAAGCAAGAAAT
TCTTCCTTTGAAAAAATATATATATTAATAAAACCCTTTTAGATGGTTTTTTTTTAAAAAATAAATAAATGTTAATGTGTCATGTA
TAAATTACTTTTGGCAGACAGTGTATGAATTATGTATCATGTTGATATATAATATGTTAATGTGTCATGTA
ATTTTACTTTGTACAAAGCAAATAAAGATCTTCTCAAAAAAAAAAAAAAAAAA

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FIGURE 1246

MELVAGCYEQVLFGFVHPEPKACGDHEQWTLVADFTTHAHTASLSAVAVNSRFVVTGSKDETIHIYDMKKKIEH
GALVHHSGTITCLKFYGNRHLISGAEDGLICIWDAKKWECLKSIKAHKGQVTFLSIHPGKLALSVGTDKTLRTW
NLVEGRSAFIKNIQNAHIVEWSPRGEQYVVI IQNKIDIYQLDTASISGTITNEKRISSVKFLSESVLAVAGDEE
VIRFFDCDSLVLCLCEFKAHENRVKDMFSFEIPEHHVIVSASSDGFIMWKLKQDKKVPPSLCEINTNARLTCLG
VWLDKVADMKSLPPAAEPSPVSKEQSKIGKKEPGDTVHKEEKRSKPNTKKRGLTGDSKKATKESGLISTKKRKMV
EMLEKKRKKKKIKIMQ

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FIGURE 1247

AGCAGGTTTCGAATGCTCTTTACTTCCTTTGTGGAGCAAAAGAAAAAGCAGGAGTATTTGAACAAATCACTAAG
ACTCATGGAACAATTATTGGCATTACTTCAGGGATTGTCTTGGTCCTTCTCATTATTTCTATTTTAGTACAAGTG
AAACAGCCTCGAAAAAGGTCATGGCTTGCAAAACCGCTTTTAATAAAACCGGTTCCAAGAAGTGTTCGATCCT
CCTCATTATGAAGTGTTCCTACTAAGGGACAAAGAGATTTCTGCAGACCTGGCAGACTTGTGGAAGAATTGGAC
AACTACCAGAGGATGCGGCGCTCCTCCACCGCTCCCGCTGCATCCAGACCACCACTGTGGGTGCGAGGCCCTCC
AGCGTCAAACAAAGCAGGACCAACCTCAGTTCCATGGAGCTTCTCTCCGAAATGACTTTGCACAACCACAGCCA
ATGAAAACATTTAATAGCACCTTCAAGAAAAGTAGTTACACTTTCAAACAGGGACATGAGTGCCCTGAGCAGGCC
CTGGAAGACCGAGTAATGGAGGAGATTCCCTGTGAAATTTATGTGAGGGGCGAGAAGATTCTGCACAAGCATCC
ATATCCATTGACTTCTAACTCTTCTGCTAATGGTGATGTGAATTCCTAGGGTGTGTACGTACGCAGCCTCCAGGGC
ACCATACTGTTTCCAGCAGCCAACCTTTTCTCCCATCACAACCTACGAAGACCTTGATTTACCGTTAACCTATG
TATGGTGATGTTTTTATTCTCTCAGGCAGTCTATATATGTTAAACCAATCAAGGAACCTACTCTATTAGTGGA
ACAATAATCATCTCTATTGCTTGGTGTCATTATAGGAAGCACTGCCAGTTAAAGAGCATTAGAAGAGGTGGTTG
GATGGAGCCAGGCTCAGGCTGCCTCTTCGTTTTAGCAACAAGAAGACTGCTCTTGACTGATAACAGCTCTGTCAA
TATTTTGATGCCACAATAAACTTGATTTTTCTTTACATTCCTTTTATTTTTCTTTCTCTAAATTTAATTTGTT
TATAAGCCTATCGTTTTACCATTTCATTTTCTTACATAAGTACAAGTGTTAATGTACCACATACTTCAGTATAG
GCATTTGTTCTTGAGTGTGTCAAATACAGCTAGTTACTGTGCCAATTAAGACCCAGTTGTATTTCACCCATCTG
TTTCTTCTGGCTAATCTCTGTACTTCTGCCTTTTAATTACTGGGCCCTTATTCCTTATTTTCTGTGAGAAATAA
TAGATGATATGATTTATTACCTTTCAATTATATTTTCTCAGTTATACTAGAAAATTTTATAATCCTGGGATATA
TGTACCATTGTCAGCTATGACTAAAAATTTGAAAAAGATAAAAAATTTCTAGCAAGCCTTTGAAGTTTACCAAGTA
TAGTCACATTGACGACAGCCATTTCATTCCAGTAAAGAATCATTTCATTCACTTTGGGAGAGGCCATATAATTAC
ATTTATTTGCAATGTTTCTTCTCGCTAGATTGTTACATAGCTCCCATTCGTGTTGGTTTTGCTTACAGCATATGGT
AACCAAGGTTAGATGCCAGTTAAATTCCTTAGAAATGGATGAGCCTTGAGATTGCTTCTTAACTGGGACATGA
CATTTTTCTAGCTCTTATCAAGAATAACAACCTCCACTTTTTTTTTAACTGCACCTTTTGACTTTTTTTATGGTAT
AAAAACAATAATTTATAAACATAAAAGCTCATTGTGTTTTTTAGACTTTTGATATTATTTGATACTGTACAACT
TTATTAAATCAAGATGAAAGACCTACAGGACAGATTCCCTTTTCAAGTGTTCACATCAGTGGCTTTGTATGCAATAT
GCTGTGTTGGACCTGGACGCTATAACTTATTGTAAAGACCTTGGAATGTGGACATAAGCTCTTTCTTTCTTTT
GTTACTGTATTTAGTTTGTGATAAATTTTCACTGTGTGATATTTATGCTCTAAATCACTACACAAATCCCATAT
TAAATATACATTGTACCTGACCCTTTAATCATGTTATTTATGCCACCAAGGTTGTGGATCTTAAGGTATGTATG
GAAAGGAACCTATTTATCAAATGTAAAGTAATACAGACATGCCATTTAAAGAGGTAAATCTTGTGTTTCTATAT
TTTGTAGTAAATCTCAATGAAATAAGTTGAAGTTTCACTGGATTTCACTAACTTTTAAATATTACATATATGT
GTTTTCTCAGATTAGTGAAATGTGACCTTAAATTTAATACACATATACTGCCTCAG

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FIGURE 1248

MLFTSFVEQKKKAGVFEQITKTHGTIIIGITSGIVLVLLIISILVQVKQPRKKVMACKTAFNKTGFQEVFDPPHYE
LFSLRDKEISADLADLSEELDNYQRMRRSSTASRCIHDHHCQSASSVKQSRTNLSSMELPLRNDFAQPQPMKTF
NSTFKKSSYTFKQGHECPEQALEDRVMEEIPCEIYVRGREDQAQASISIDF

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FIGURE 1249

AAACCCAAAGCGGCCGCCGTAGGCGAAGGTGAAGATGGCTGCTCTGCCTTTGCTGGTGCAGTGAGAGCAGCTTC
AGGAATCCTACGGCCCCCTGAATATTTTGGCATCTTCAACCTACCGCAACTGTGTCAAGAATGCCTCTCTTATTTC
TGCAITGTCCACTGGACGTTTTAGTCATATTACAGACACCAGTTGTTTCCCTCCACTCCCAGACTTACCACATCTGA
GAGAAACCTGACATGTGGGCATACCTCAGTGATCCTTAATAGAATGGCCCCCGTGCTTCCAAGTGTCTCTGAAGCT
GCCAGTCAGATCTCTAACATACTTCACTGCAAGAAAAGGCAAGAGAAAGACCGTGAAAGCTGTCATCGATAGGTT
TCTTCGACTTCATTGTGGCCTTTGGGTGAGGAGAAAGGCTGGCTATAAGAAAAAATTATGGAAAAAGACACCTGC
AAGGAAGAAGCGATTGAGGGAATTTGTATTCTGCAATAAAACCCAGAGTAACTCTTAGATAAAATGACGACGTC
CTTCTGGAAGAGGCGAAACTGGTACGTTGATGATCCTTATCAGAAGTATCATGATCGAACAAACCTGAAAGTATA
GATCAGAAGTTTCACTTGTCTCAGTTATTGGATAIGTATCTTTGTGTACATATCTTTGCAAAAATGGATAAGT
ACAAAACCTTGATGTAAATTGTACCAATGAATACGTAAACATACAGTGACACATTAACCTTAGAAAAGTTTTAAA
ACTTAATGGATCAGACTTTGCCAGATTTGGTTAGGGAACAGAAATTTAGAAATGGTGCATTATTTTAAACAATG
GTATTGGCTTAACTAGTTGTTTCACTTATGCTCTTTTAGTTGCAAGGAATCTCAAGTGGGACAAACATAAAAAAGA
CTCAAAGCTACAAGTTAGCTCAAGCAATGTGACATTATTTCAAGGATATGTGCCAGGGAATTCAGGAACACCT
CACCAACCCCATCTCCACTCAGAAATCACCTCCAGCCTCAGGAAGAGTAGAAATGGGTGGTGCTCCTCAGCA
GGGGAAGGTGGATGTTTAGGCTTGGGCTCTGCATGCATGTGACTTGCTTCTTTTGCATTGTTAACTCCATTCTC
TCTATTACCAACTTCTCTACACAGCTTTTGCATACTTACAGTTCTGTTCTTTGTAATAACTTTAACTTGCAC
CTTTGAGGTTCTTTTCTACATGATGACCTTCACTCTCTGCTAGTCTCCAATGCCAAGGGAATTTAACTGGG
CCAGACTACCTTTTATACTAGGTCTGGTTGGGTCATTGTCTAGAGTAGGGATTGGCTGTCTTAACTCAGGAGC
CCGCTTTGTATTAGCAGGTTTGCATGCAGCAAAAAACAGTTATGTGAGCAGTTTCACTTGGAGGTTACATGGG
GTGGCAGCACACTTAACATCTAACACACCAGGTTTATTGTGTTTATAACACTTGTCAATTTACTGTAACAACATTT
TTTCATAGGAGAGTAAATAGCCCTTCAGCATGCTCATTATGAAACAGAAGAGGCTGTACAAGTGAAGACAAGGG
CTTTTTATGCAAGTTTGAAGATAGGTATTTATTTTTCTAGAGACAGGAGTTTGCTCTGTTGCCAGGCTGG
AGTGCAGTGGTGCAATCATAGCTCATTGAAGCCTCGCACTCCTGGGCTCAAGTGGTCTCTGCCTCAGCTTACT
GAGTAAGGATATGTATTTCTTAAAGTTAGTTTATCCACTTCAAGTTTCAATGTTTCAATTTGTAAGGATAAACTT
TTCCACAAAATTTTCAACAATCATGTAGAACTAAGGGGGAGAAAGTAATCTCAGTTGTTTTAGAAACGAAAAA
GTTAAGCATTGTTTACTTGAAGTGGGAGGGAAGCAGCACTGAGTAAAGTTCAATTGAGTGGTTACAGTCTAGGG
CAGTGGTTCCCAACTCTCCGATCAGAATCATCTGGAAGCATTTCAAACAGCAAAGTACTTTGAAAACCATTTAT
TAAATAGAATTATGCATGAATTACTGTTTCAGATCCTTTAATGTGGTAGTTGGTAATAATAAGATGAAATTCCTC
TGTGTTAGTAAATTTATGAAATTGAAGTTCTGCAGCATGTGAGGCCAGGATTATTAGGGAGATTCTCGAAACT
AGTGTGTGTTTTATTAAGGAGAAAGGATAACAATAGAATGTTCTAAAACAGAAAGTCCAAGTGCCTGTCTACTT
ATGGGACCAATAAAATAAAGAACAGACATTTGATTGAGGTGAGGTAAAAGCCTGAAACATGGAATGGCATTCTGT
TTTGATGGATTTTCACTTCTTCGCACTTCTGAGACGGCAAAGCCAACCACTTAGAAGCCTTCCACATCTTTGTCA
CCTGCCTGGCTCCTGCTCTCTGATGTACCTCTGGGTAGTGAGATGGAAATGGTGCTGCAGAAGTTGGGGAGAAG
GATACTTTTGCACAGCCTCCATGATGTCTTTATTGCAAATATGGATGACAAGGGTCTCTGTTACAGGGGCTCAG
AGCACCTTCGTTTCTCCTCTAGACCAGGGACAGGTGTAGAGATAAGGACTGGCAACCAGAGCCTCAGCATCCAAA
GATGGACTGAAGTGGGATGGCTGACAGGCACATAACTTACGGGAAAGGGAATTTATACATACGATTTTGTGTTT
GTGGGTAGGAGGGCTTATCATCAACACTGATTTTATAATCTGACAATAAATGCTTTTCATTAAAGAGTTTACCTA
AATGAAAAAAAAAAAAAAAAAAAAAAAAA

1381/2682
FIGURE 1250

MAASAFAGAVRAASGILRPLNILASSTYRNCVKNASLISALSTGRFSHIQTPVVSSTPRLTTSEARNLTCGHTSVI
LNRMAPVLP SVLKLEPVRSLTYFSARKGKRKTVKAVIDRFLRLHCGLWVRRKAGYKKKLWKKTPARKKRLREFVFC
NKTQSKLLDKMTTSFWKRRN

1382/2682
FIGURE 1251

GGCAACGAGGGGCTGCCTCTGCGGGGTCCGCTAGTCGCGGGGCGGCGGCGGCTGCGGGCGCGAGGTTCCAG
CAGGATGCCCCGGCTCTGCAGGAAGCTGAAGTGAGAGGCCCGGAGAGGGCCCAGCCCGCCCGGGGCAGGATGACC
AAGGCCCGGCTGTTCCGGCTGTGGCTGGTGTGGGGTCGGTGTTCATGATCCTGCTGATCATCGTGTACTGGGAC
AGCGCAGGCCCGCGCACTTCTACTTGCACACGTCCTTCTTAGGCCGCACACGGGGCCGCCGTGCCACGCCC
GGGCCGACAGGGACAGGGAGCTCACGGCCGACTCCGATGTCGACGAGTTTCTGGACAAGTTTCTCAGTGCTGGC
GTGAAGCAGAGCGACCTTCCCAGAAAGGAGACGGAGCAGCCGCTGCGCCGGGAGCATGGAGGAGAGCGTGAGA
GGCTACGACTGGTCCCCGCGGACGCCCGGCGCAGCCAGACCAGGGCCGGCAGAGGCGGAGCGAGGAGCGTG
CTGCGGGGCTTCTGCGCCAACCTCCAGCCTGGCCTTCCCCACCAAGGAGCGCGCATTCGACGACATCCCCAACTCG
GAGCTGAGCCACCTGATCGTGGACGACCGGCACGGGGCCATCTACTGCTACGTGCCAAGGTGGCTGCAACCAAC
TGGAAGCGCGTGATGATCGTGTGAGCGGAAGCCTGCTGCACCGCGGTGCGCCCTACCGCGACCCGCTGCGCATC
CCGCGCGAGCAGCTGCACAACGCCAGCGCGCACCTGACCTTCAACAAGTTCTGGCGCCGCTACGGGAAGCTCTCC
CGCCACCTCATGAAGGTCAAGCTCAAGAAGTACACCAAGTTCTCTTCTGTCGCGACCCCTTCGTGCGCCTGATC
TCCGCCCTTCCGCGACAAGTTGAGCTGGAGAACGAGGAGTTCTACCGCAAGTTGCGCGTGCCCATGCTGCGGCTG
TACGCCAACACACCAGCCTGCCCGCCTCGGCGCGGAGGCCTTCCGCGCTGGCCTCAAGGTGTCTTCGCCAAC
TTCATCCAGTACCTGCTGGACCCGCACACGGAGAAGCTGGCGCCCTTCAACGAGCACTGGCGGCAGGTGTACCGC
CTCTGCCACCCGTGCCAGATCGACTACGACTTCGTGGGGAAGCTGGAGACTCTGGACGAGGACGCCGCGCAGCTG
CTGCAGCTACTCCAGGTGGACCGGCAGCTCCGCTTCCCCCGAGCTACCGGAACAGGACCGCCAGCAGCTGGGAG
GAGGACTGGTTCGCCAAGATCCCCCTGGCCTGGAGGCAGCAGCTGTATAAACTCTACGAGGCCGACTTTGTTCTC
TTCGGCTACCCCAAGCCGAAAACCTCCTCCGAGACTGAAAGCTTTCGCGTTGCTTTTTCTCGCGTGCTTGAAC
CTGACGCACGCGCACTCCAGTTTTTTTTATGACCTACGATTTTGCAATCTGGGCTTCTTGTTCACTCCACTGCCTC
TATCCATTGAGTACTGTATCGATATTGTTTTTAAGATTAATATATTTACGGTATTTAATACGAAATGTGGAAGG
GAATGCTGGAGTAAATATCCCTCTCCCTCCGCCCCGCCCGCCCCGCTCGCCCCGCCCGCCGCTCGC
CCGCTCCTGTGGTTTTTTCTGAGCGTGCGGGCTCCGGGAGGGGATGCTGAGGCTGATGGAGCTGCCTCCAGGGCTA
GGGCCACTCACCGAGGAGGGCGGGCCTGCACCTGAAGTCAGGCCGCACCTGTCTGTTTTTGAAGGGTAGCCG
ACAAATCCTTCCAGAGGGAAGTTCTTTGTTTAAGTGTTGACTTGAAAAGGTCAATCTTCAGGGCTTCCTGTTT
GAAGTCAAGTCAGAGGTAAACCGGTCAATTACAGAAGCAGGATTTCTAGGATTTCTAACTCCAGCTGTTCCATA
CTGTCTAGTTTAAATTATGGCTGTTAAGGCCGGGCGGGTGACTCAGGCAGGTAATCCAGAACTTTGGGAGGCCC
AGACAGAAGGATCGCTTGAGGTCAGGAATTTGAGACCTGGCCAACATGGTGAAACCCTGTCTCTACTAAAAAAA
AAAAAAAAAAAAAAAA

1383/2682
FIGURE 1252

MTKARLFRLWLVLGSVFMILLIIVYWDSAGAAHFYLHTSFSRPHTGPPLPTPGPDRDRELTADSDVDEF LDKFLS
AGVKQSDLP RKETE QPPAPGSMEESVRGYDWSPRDARRSPDQGRQQAERRSVLRGFCANSSLAFFTKERAFDDIP
NSELSHLIVDDRHGAIYCYVPKVACTNWKRMIVLSGSL LHRGAPYRDPLRIPREHVHNASAHLT FNKFWRRY GK
LSRHLMKVKLK KYTKFLFVRDPFVRLISAFRSKFELENEEFYRKFAVPMLRLYANHTSLPASAREAFRAGLKVSF
ANFIQYLLDPHTEKLAPFNEHWRQVYRLCHPCQIDYDFVGKLET LDEDAQAQLLQLLQVDRQLRFPPSYRNRTASS
WEEDWFAKIPLAWRQQLYKLYEADFVLFGYPKPENLLRD

1384/2682
FIGURE 1253

AGTCTTGGCGGAGGTGACCAAAGCCACGTAATGTCGCTAGTTCGCTCATCCGTCCATGCCAGATGGATTGTGGGG
AAGGTGATTGGGACAAAAATGCAAAAGACTGCTAAAGTGAGAGTGACCAGGCTTGTTCTGGATCCCTATTTATTA
AAGTATTTTAATAAGCGGAAAACCTACTTTGCTCAGATGCCCTTCAGCAGTGCACAGTTGGGGATATTGTGCTT
CTCAGAGCTTTACCTGTTCCACGAGCAAAGCATGTGAAACATGAACTGGCTGAGATCGTTTTCAAAGTTGGAAAA
GTCATAGATCCAGTGACAGGAAAAGCCCTGTGCTGGAACCTACCTACCTGGAGAGTCCGTTGAGTTCGGAAACCACC
CAGCTAAGCAAAAATCTGGAAGAACTCAATATCTCTTCAGCACAGTGAAGCGGGAGTGGAAGAAGGATCTAAAGG
GAAAACTGACATGTTTATGTTATGGAAAAAGAAATTTTCTAAGTTTCATCACAACTGTGTCCAGTTTCTCTG
TGGTGTATGAAATAGCTAAAAGCAAATGAAGTAAAGGGCATACTATGTTTTTCACAAAAAAAAAAAAAAAAAA

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FIGURE 1254

MSVVRSSVHARWIVGKVI GTKMQKTAKVRVTRLVLDPYLLKYFNKRKTYFAHDALQQCTVGDIVLLRALPVPRAK
HVKHELAEIVFKVGKVIDPVTGKPCAGTTYLESPLSSETTQLSKNLEELNISSAQ

1386/2682
FIGURE 1255

GAGTTTTTCATTTGTGGTGAGATTCTCTCCAGGCCACAAGACATTTCTGCTCGGAACCTTGTTTACTAATTTCC
ACTGCTTTTAAGGCCCTGCACTGAAAATGCAAGCTCAGGCGCCGGTGGTCGTTGTGACCCAACCTGGAGTCGGTC
CCGGTCCGGCCCCCAGAACTCCAAGTGGCAGACAGGCATGTGTGACTGTTTCAGCGACTGCGGAGTCTGTCTCT
GTGGCACATTTTGTTCCTGCGCTTGGGTGTCAAGTTGCAGCTGATATGAATGAATGCTGTCTGTGTGGAACAA
GCGTCGCAATGAGGACTCTCTACAGGACCCGATATGGCATCCCTGGATCTATTGTGATGACTATATGGCAACTC
TTTGCTGTCCTCATTGTACTCTTTGCCAAATCAAGAGAGATATCAACAGAAGGAGAGCCATGCGTACTTTCTAAA
AACTGATGGTGAAAAGCTCTTACCGAAGCAACAAAATTCAGCAGACACCTCTTCAGCTTGAGTTCTTCACCATCT
TTTGCAACTGAAATATGATGGATATGCTTAAGTACAAGTATGGCATGAAAAAATCAAATTTTGAATTTATTAT
AAATGAATGTTGTCCCTGAACTTAGCTAAATGGTGCAACTTAGTTTCTCCTTGCTTTCATATTATCGAATTTCT
GGCTTATAAACTTTTTAAATTACATTTGAAATATAAACCAATGAAATATTTTAACTGATAAAAAAAAAAAAAA
AAATAAAAAA

1387/2682
FIGURE 1256

MQAQAPVVVVTQPGVGPGPAPQNSNWQTGMCDCFSDCGVCLCGTFCFPCLGCQVAADMNECCLCGTSVAMRTLYR
TRYGIPGSICDDYMATLCCPHCTLQIKRDINRRRAMRTF

1388/2682
FIGURE 1257

ACGAGGATCCGGTGTTCACCCAGGGGGAAAAATGCGGCCTTTGACTGAAGAGGAGACCCGTGTCATGTTTGAG
AAGATAGCGAAATACATTGGGGGAGAATCTTCAACTGCTGGTGGACCGGCCGATGGCACCTACTGTTTCCGTCTG
CACACGACCGGGTGTACTATGTGAGTGAGAAGATTATGAAGCTGGCCGCCAATATTTCCGGGGACAAGCTGGTG
TCGCTGGGGACCTGCTTTGGAAAATTCATAAAACCCACAAGTTTCGGTTGCACGTCACAGCTCTGGATTACCTT
GCACCTTATGCCAAGTATAAAGTTTGGATAAAGCCTGGTGCAGAGCAGTCCTTCCTGTATGGGAACCATGTGTTG
AAATCTGGTCTGGGTCTGAATCACTGAAAATACTTCTCAGTACCAGGGCGTGGTGGTGTACTCCATGGCAGACATC
CCTTTGGGTTTTGGGGTGGCAGCCAAATCTACACAAGACTGCAGAAAAGTAGACCCCATGGCGATTGTGGTATTT
CATCAAGCAGACATTGGGGAATATGTGCGGCATGAAGAGACGTTGACTTAAACGAAGCCATTCCAAGGACAGAC
GGCTGTATGGAAAGGCCGAGCTTTGTTTCCTGTGTTTGTGIGGACTCCACCATCATGTTGAATTTTGTCAACACT
CTGGCCTCTTCAGGGACTTCTTATTTACTGTACTCTCTATCACTGACAAATGCAGGCTGGATTCTTATTATATAC
AGAGATGGCTCAAAAATGGGGTTTTAGATCTTTGTGACGAAATAGAATACTGTTTCATATTTGAATCAGAGGGCT
TCTTGTCTGAGAAATAGGTTCAAAATCATTGGAACCAGGAACAAGAATAGCTTATTGTTATCTGTGATAACACT
GTTTTCTAAACACAAGGATTTTCTTTTTTATTAATATGCAACATAGACATTGCCATAACAGAATAATAAACCACA
TGTGGGGTTTTAAAAATGAAATTTGGCTAATAGGAGCAATTCAGCTATTTTCTATACAGTAATTGGTGTGTGGT
ATAGAAGAAAAACGGGTTCAAACCCCACTTCTGCCACCTACCAGCTATATGGCCTTGAATGAGTCATTTCAGCTTT
AATAAGGTTTATTTCTTCTGTTTAAAAAGACACAAAACCTGAAAATCAGCTTTGGCCATCTACCTGAGAATTAG
AAAGTCTGATTTTGGGAATTAGAAATCATGATTGTAGGCTGGGCACAGTGTGCGCCTGTAATCCCAGCACTTTG
GGAGGCCAAGGCGGACGGATCACTTGAGGTTAGGAGTTTGTAGACCAGCCTGGCCAACATGGTGAAACCCCATCTC
TACTAAAAA

1389/2682
FIGURE 1258

MRPLTEETRVMFEEKIAYIGENLQLLVDRPDGTTCFRLHNDRVYYVSEKIMKLAANISGDKLVSLGTCFGKFTK
THKFRHLHVTALDYLAPYAKYKVVWIKPGAEQSFLYGNHVLKSLGRITENTSQYQGVVYSMADIPLGFGVAAKST
QDCRKVDPMIAIVVFHQADIGEYVRHEETLT

1390/2682
FIGURE 1259

GGAAGAAAACCTGAAAAAGACCCCAAAGAAGAATATGAAAATGGTAACTGGAGCCGTAGCGTCGGTGCTGGAAGA
CGAGGCCACAGACACTTCTGATAGTGAAGGAAGCTGTGGATCGGAAAAGGACCACCTTTATTCTGATGATGACGC
AATAGAAGCTGACAGTGAGGGTGATGCTGAGCCCTGTGACAAAAGAAAATGAAAATGATGGAGAATCAAGTGTGG
GACTAATATGGGCTGGGCAGATGCTATGGCTAAAGTCCTCAACAAGAAAACCTCCTGAAAGTAAACCTACTATTCT
GGTCAAAAATAAGAAGCTGGAAGGAAAAAGAAAAGTTAAAGCAAGAAAGACTAGAGAAAATAAAACAGCGTGA
TAAGAGGCTGGAGTGGGAAATGATGTGCAGAGTAAAGCCAGATGTTGTCCAAGACAAAGAGACAGAGAGAAATCT
TCAGAGAATTGCAACAAGGGGTGTGGTGCAATTATTTAATGCTGTTTCAGAAACATCAAAAGAATGTTGATGAAAA
GGTTAAGGAAGCTGGAAGTTCTATGAGAAAGCGTGCTAAGTTGATATCAACTGTTTCCAAGAAAGATTTCATCAG
TGTTTTGAGAGGGATGGATGGAAGTACAAATGAGACTGCTTCAAGCAGGAAGAAACCAAAAGCCAAACAGACTGA
AGTGAATCAGAAGAAGGCCAGGTTGGACGATCCTACGTGATGATTTTCATGATGGGAGCATCTATGAAAGACTG
GGACAAGGAAAGTGATGGGCCAGATGACAGCAGACCAGAATCTGCAAGTGACTCTGATACATAAAGCATCATAGG
AAATACAATTGCAGTCGTTTTATTTTTCTAGAAAAATATGTCATCCTCTGATAGTTGGGGAATTATAAGGATAC
CATTTGTAAGAAAGCCAAAGACTTTTGCCAGATTTTCATATTTCCCTTTTTCATGTACACTTTATATATACTTCA
TTAAAATTATATTTTAAACCTTTGTATAATTTTAAAGCATTGTTCCCTCAGAACATTTGTAAGGATATATTTCTG
CTTGACCAGCGAGATGTGCATTTTGCCAGGATCATATTGGTCATGTCTATTGGTGTATTATTTTCAGTATCACCAA
TGTTTTCAGAAATACAGTACTAATTCATCATTAACTCTTTGAAGTTAATATTTTTCTGCCTTCTAACTTATAGA
CTCAACTATGTAICTGTAGTTTTTGGGAATGGTTGGTGTTTTTTGCTTTGTGTTGGGAAGTTATTGAGAAAACCT
ATATAATAAAATTTAAAATTATAGTTTTTCAA

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FIGURE 1260

MKMVTGAVASVLEDEATDTSDEGSCGSEKDHFYSDDDAIEADSEGDAEPCDKENENDGESSVGTNMGWADAMAK
VLNKKTPESKPTILVKNKKLEKEKEKLKQERLEKIKQDKRLEWEMMCRVKPDVVQDKETERNLQRIATRGVVQL
FNAVQKHQKNVDEKVKEAGSSMRKRAKLITVSKKDFISVLRGMDGSTNETASSRKKPKAKQTEVKSEEGPGWTI
LRDDFMMGASMKDWDKESDGPDDSRPESASDSDT

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FIGURE 1261

AAACATGAATTCAAACGGCTCATCTTATTTTCGACCATTTCGGCCCCATCATGAAAGTGAAAAATGAAAAGCTCAAC
ATGGCCAACACGCTTATCAATGTTATCGTGCCTCTAGCAAAAAGGGTGGACAAGTTCCGGCAGTTCATGCAGAAAT
TTCAGGCCTGCTGATGAAGTTTTTAGATGTGTGCCTTTAAGCCCTTGATTGTGCGGTGTTGGATCTTAGAAGCTG
TGATGGCTCAGATGCACATATTGGCTGAGGATAACCAGCTAAGTGATTTCACCAGCTTGTTTTAAACATAGAAAA
TCCTACTGTCTAATTATAAATCTTGAAAGATCAAGCTGATTTTTTATTCTTTTTTTTTGAGATGGAGTCTTACT
CTGTCAACCAGGCTGGAGTGCAGTGGCACGAACCTCTGCTCACTGCAACCTTCACCTCCCAGGTTTCAGGGAGATGT
GCATTGAGCAGGATGGGAGAGTCCATCTCACTGTTGTTTACTTTGGGAAAGAAGAAATAAATGAAGTCAAAGGAG
TACTTGAAAACACTTCCAAAGCTGCCAACTTCAGGAACCTTACCTTCATCCAGCTGAATGGAGAATTTTCTCGGG
GAAAGGGACTTGATGTTGGAGCCCGCTTCTGGAAGGGAAGCAACGTCCTTCTCTTTTTCTGTGATGTGGACATCT
ACTTCACATCTGAATTCCTCAATACGTGTAGGCTGAATACACAGCCAGGGAAGAAGGTATTTATCCAGTTCTTT
TCAGTCAGTACAATCCTGGCATAATATACGGCCACCATGATGCAGTCCCTCCCTTGGAACAGCAGCTGGTCATAA
AGAAGGAAACTGGATTTTGGAGAGACTTTGGATTTGGGATGACGTGTCAGTATCGGTTCAGACTTCATCAATATAG
GTGGGTTTGATCTGGACATCAAAGGCTGGGGCGGAGAGGATGTGCACCTTATCGCAAGTATCTCCACAGCAACC
TCATAGTGGTACGGACGCTGTGCGAGGACTCTTCCACCTCTGGCATGAGAAGCGCTGCATGGACGAGCTGACCC
CCGAGCAGTACAAGATGTGCATGCAGTCCAAGGCCATGAACGAGGCATCCCACGGCCAGCTGGGCATGCTGGTGT
TCAGGCACGAGATAGAGGCTCACCTTCGCAACAGAAACAGAAGACAAGTAGCAAAAAACATGAACCTCCAGAG
AAGGATTGTGGGAGACACTTTTTCTTTCTTTTGCAATTACTGAAAGTGGCTGCAACAGAGAAAAGACTTCCATA
AAGGACGACAAAAGAATTGGACTGATGGGTGAGAGATGAGAAAGCCTCCGATTTCTCTCTGTTGGGCTTTTTACA
ACAGAAATCAAAATCTCCGCTTTGCCTGCAAAAGTAACCCAGTTGCACCTGTGAAGTGTCTGACAAAGGCAGAA
TGCTTGTGAGATTATAAGCCTAATGGTGTGGAGGTTTTGATGGTGTTTACAATACACTGAGACCTGTTGTTTTGT
GTGCTCATTGAAATATTCATGATTTAAGAGCAGTTTTGTAAAAAATTCATTAGCATGAAAGGCAAGCATATTTCT
CCTCATATGAATGAGCCTATCAGCAGGGCTCTAGTTTCTAGGAATGCTAAAAATATCAGAAGGCAGGAGAGGAGAT
AGGCTTATTATGATACTAGTGAGTACATTAAGTAAAATAAAATGGACCAGAAAAGAAAAGAACCATAAATATCG
TGTCATATTTTCCCCAAGATTAACCAAAAAATAATCTGCTTATCTTTTTGGTGTCTCTTTTAACTGTCTCCGTTTT
TTTCTTTTATTTAAAAATGCACTTTTTTTCCCTTGTGAGTTATAGTCTGCTTATTTAATTACCACTTTGCAAGCC
TTACAAGAGAGCACAAGTTGGCCTACATTTTTATATTTTTTAAGAAGATACTTTGAGATGCATTATGAGAACTTT
CAGTTCAAAGCATCAAATTGATGCCATATCCAAGGACATGCCAAATGCTGATTCTGTTCAGGCACTGAATGTCAGG
CATTGAGACATAGGGAAGGAATGGTTTTGTACTAATACAGACGTACAGATACTTCTCTGAAGAGTATTTTCGAAG
AGGAGCAACTGAACACTGGAGGAAAAGAAAATGACACTTTCTGCTTTACAGAAAAGGAACTCATTACAGCTGGT
GATATCGTGATGTACCTAAAAGTCAGAAACCACATTTTCTCCTCAGAAGTAGGGACCGCTTTCTTACCTGTTTTAA
ATAAACCAAAGTATACCGTGTGAACCAAACAATCTCTTTTCAAAAACAGGGTGCTCCTCCTGGCTTCTGGCTTCCA
TAAGAAGAAATGGAGAAAAATATATATATATATATATATATTGTGAAAGATCAATCCATCTGCCAGAATCTAGTG
GGATGGAAGTTTTTGCTACATGTTATCCACCCAGGCCAGGTGGAAGTAACTGAATTATTTTTTAAATTAAGCAG
TTCTACTCGATCACCAAGATGCTTCTGAAATTGCATTTTATTACCATTTCAAATATTTTTTAAAAATAAATAC
AGTTAACATAGAGTGGTTTTCTTCATTGATGTGAAAATTATTAGCCAGCACCAGATGCATGAGCTAATTATCTCTT
TGAGTCCTTGCTTCTGTTTGCTCACAGTAAGCTCATTGTTTAAAAGCTTC

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FIGURE 1262

MESYSVTQAGVQWHELCSLQSPPRFREMCI EQDGRVHLTVVYFGKEEINEVKGVLENTSKAANFRNFTFIQLNG
EFSRGKGLDVGARFWKGSNVLLFFCDVDIYFTSEFLNTCRLNTQPGKKVFYPVLFSQYNPGI IYGHDAVPPLEQ
QLVIKKETGFWRDFGFGMTCQYRSDFINIGGFDL DIKGWGGEDVHLYRKYLHSNLIVVRTPV RGLFHLWHEKRCM
DELTPEQYKMCMQSKAMNEASHGQLGMLVFRHEIEAHLRKQKQKTSSKKT

1394/2682
FIGURE 1263

CCGCTGTTATACGTCACTTCCACGGCTCAGCGTCAGGGAGGAGAGAGAATGCTTTTCGAGGCGGAGGTCGTGGA
GGCTTTAATCGAGGTGGTGGAGGTGGCGGCTTCAACCGAGGCGGCAGCAGCAACCACTTCCGAGGTGGAGGCGGC
GGTGGAGGCGGCGGCAATTCAGAGGCGGCGGCAGGGGAGGATTTGGACGAGGGGGTGGCCGCGGAGGCTTTAAC
AAAGGCCAAGACCAAGGACCTCCAGAACGTGTAGTCTTATTAGGAGAGTTCCTGCATCCCTGTGAAGATGACATA
GTTTGTAATGTACCACAGATGAAAATAAGGTGCCTTATTTCAATGCTCCTGTTTACTTAGAAAAACAAAGAACAA
ATTGGAAGTGGATGAAATATTTGGACAACCTCAGAGATTTTTATTTTTTCAGTTAAGTTGTCAGAAAACATGAAG
GCTTCATCCTTTAAAAAACTACAGAAGTTTTATATAGACCCATATAAGCTGCTGCCACTGCAGAGGTTTTTACCT
CGACCTCCAGGTGAGAAAGGACCTCCAAGAGGTGGTGGCAGGGGAGGCCGAGGAGGAGGAAGAGGAGGAGGTGGC
AGAGGTGGTGGCAGAGGCGGTGGTTTTAGAGGTGGAAGAGGAGGTGGAGGTGGGGGCTTCAGAGGAGGAAGAGGT
GGTGGTTTCAGAGGGAGAGGACATTAAAGTGAACAGTTGACAGACATCACCAGTTGACTTCTGCATTAACCTGCA
TGATCTGTTTCTACTATGGATTGGAACTTGTTTCTTGAACAAGTCTTGAAGATCTTGGTCATTTTATGACAATG
GATCTAAATGTCAGCATCATGCAAAGTGCAACGGAATAGTGAATTTTGCTCTAAAAGAGCATGAACAAGTCTTT
CTAATGTTTTGTACAGTGCCTGGCACTCTGTGGGTGCTCAATAAATGGATAGGAGTTTTTCATTTGAAGCATATTT
GAATTTTTAAATAAAGTGTTTTATTCCCTTAAAAAAAAAAAAAAAA

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FIGURE 1264

MSFRGGGRGGFNRRGGGGGFNRGGSSNHFRGGGGGGGGGNFRGGGRGGFGRGGGRGGFNKGQDQGPPERVVLLGE
FLHPCEDDIVCKCTTDENKVPYFNAPVYLENKEQIGKVDEIFGQLRDFYFSVKLSENMKASSFKKLQKFYIDPYK
LLPLQRFLLPRPPGEKGPPRGGRGGGRGGGGRRGGGGRRGGGGFRGGRRGGGGGFRGGRRGGGFRGRGH

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FIGURE 1265

ATGCTGCTGAAAGAGTACCGGATCTGCATGCCGCTCACCCTAGACGAGTACAAAATTGGACAGCTGTACATGATC
AGCAAACACAGCCATGAACAGAGTGACCGGGGAGAAGGGGTGGAGGTCGTCCAGAATGAGCCCTTTGAGGACCCCT
CACCATGGCAATGGGCAGTTACCGAGAAGCGGGTGTATCTCAACAGCAAACCTGCCTAGTTGGGCTAGAGCTGTT
GTCCCCAAAATATTTTATGTGACAGAGAAGGCTTGGAACATTATCCCTACACAATTACAGAATACACATGTTCC
TTTCTGCCGAAATTCTCCATTTCATATAGAAACCAAGTATGAGGACAACAAAGGAAGCAATGACACCATTTTCGAC
AGTGAAGCCAAAGACGTGGAGAGAGAAGTTTGCTTTATTGATATTGCCTGCGATGAAATTCAGAGCGCTACTAC
AAAGAATCCGAGGATCCTAAGCACTTCAAGTCAGAGAAGACAGGACGGGGACAGTTGAGGGAAGGCTGGAGAGAT
AGTCATCAGCCTATCATGTGCTCCTACAAGCTGGTGACTGTGAAGTCTGAGGTCTGGGGGCTTCAGACCAGAGTG
GAACAATTTGTACACAAGGTGGTCCGAGACATTCTGCTGATTGGACATAGACAGGCTTTGCGATGGGTGATGAG
TGGTATGACATGACAATGGATGAAGTCCGAGAATTTGAACGAGCCACTCAGGAAGCCACCAACAAGAAAATCGGC
ATTTTCCCACCTGCAATTTCTATCTCCAGCATCCCCCTGCTGCCTTCTTCGTCGCGAGTGCGCCTTCTAGTGCT
CCATCCACCCCTCTCTCCACAGACGCACCCGAATTTCTGTCCGTTCCCAAAGATCGGCCCCGAAAAAGTCTGCC
CCAGAACTCTCACACTCCAGACCCTGAGAAAAAGCCACCCTGAATTTACCCGGCATGCACTCTTCAGATAAG
CCATGTCGGCCCCAAATCTGAGTAACTTTATATAAATATCTCATGGGGTTTATATTTTCATTTGTTGTTGTT
TTTTTTTAAGAATCTTCTGATAGAGAAAAAGACTGCTTTGTCACTCAAACATGTTTCCTTCGACCTTTCAGTG

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FIGURE 1266

MLLKEYRICMPLTVDEYKIGQLYMISKHSHEQSDRGEGVEVVQNEFFEDPHHGNGQFTEKRVYLSKLP¹SWARAV
VPKIFYVTEKAWNYYPYTITEYTCSFLPKFSIHETKYEDNKG²SNDTIFDSEAKDVEREVCFID³IACDEIPERY⁴
KESEDPKHFKSEKTGRGQLREGWRDSHQ⁵IMCSYKLVTVKSEVWGLQTRVEQFVHKVVRDILLIGHRQAF⁶AWVDE
WYDMTMDEVREFERATQEATNKKIGIFPPAISISSIPLLPSSVRSAPSSAPSTPLSTDAPEFLSVPKDRPR⁷KKSA
PETLTLPDPEKKATLNLPGMHSSDKPCR⁸PKSE

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FIGURE 1267

GGCCGGTAGCTGTTGCTGTTGGGGGACCCCTCATTCTGCCGCTGCCGTCCCTGCTGCCTCATGGCGGCCATCG
GAGTTCACCTGGGCTGCACCTCAGCCTGTGTGGCCGTCTATAAGGATGGCCGGGCTGGTGTGGTTGCAAATGATG
CCGGTGACCGAGTTACTCCAGCTGTTGTTGCTTACTCAGAAAATGAAGAGATTGTTGGATTGGCAGCAAAACAAA
GTAGAATAAGAAATATTTCAAATACAGTAATGAAAGTAAAGCAGATCCTGGGCAGAAGCTCCAGTGATCCACAAG
CTCAGAAAATACATCGCGGAAAGTAAATGTTTAGTCATTGAAAAAATGGGAAATTACGATATGAAATAGATACTG
GAGAAGAAACAAAATTTGTTAACCAGAAAGATGTTGCCAGACTGATATTTAGTAAAATGAAAGAAACGGCACATT
CTGTATTGGGCTCAGATGCAAATGATGTAGTTATTACTGTCCCGTTTGATTTTGAGAGAAAGCAAAAAATGCC
TTGGAGAAGCAGCTAGAGCTGCTGGATTTAATGTTTTGCGATTAATTCACGAACCGTCTGCAGCTCTTCTTGCTT
ATGGAATTGGACAAGACTCCCCTACTGGAAAAAGCAATATTTTGGTGTTAAGCTTGGAGGAACATCCTTATCTC
TCAGCGTCATGGAAGTTAACAGTGGAATATATCGGGTCTTTCAACAAACACTGATGATAACATCGGTGGTGCAC
ATTTACAGAAACCTTAGCACAGTATCTAGCTTCTGAGTTCCAAAGATCCTTCAAACATGATGTGAGAGGAAATG
CGCGAGCCATGATGAAATTAACGAACAGTGCTGAAGTAGCGAAACATTCTTGTCAACCTTGGGAAGTGCCAACT
GTTTTCTGACTCATTATATGAAGGGCAAGATTTTGATTGCAATGTGTCCAGAGCAAGATTGAACTTCTTTGTT
CTCCACTTTTTAATAAGTGTTTAGAAGCAATCAGAGGACTCTTAGATCAAAATGGATTTACAGCAGATGATATCA
ACAAGGTTGTCTTTGTGGAGGGTCTTCTCGAATCCCAAAGCTACAGCAACTGATTAAAGATCTTTTCCAGCTG
TTGAGCTTCTCAATTCTATCCCTCCTGATGAAGTGATCCCTATTGGTGCAGCTATAGAAGCAGGAATTCTTATTG
GGAAAGAAAACCTGTTGGTGGAGACTCTCTTATGATAGAGTGTTCCAGCCAGAGATATTTTAGTTAAGGGTGTGG
ACGAATCAGGAGCCAGTAGATTACAGTGCTGTTTCCATCAGGGACTCCTTGCCAGCTCGAAGACAACACACAT
TGCAAGCCCCCTGGAAGCATATCTTCAGTGTGCCTTGAACCTCTATGAGTCTGATGGGAAGAACTCTGCCAAAGAGG
AAACCAAGTTTGACAGGTTGTACTCCAGGATTTAGATAAAAAAGAAAATGGATTACGTGATATATTAGCTGTTT
TTACTATGAAAAGGGATGGATCTTTACATGTGACATGCACAGATCAAGAACTGGAAAATGTGAAGCAATCTCTA
TTGAGATAGCATCTTAGTGTTTTAGAGAAATCAAGAATTTTTAAAAACAAGAATATCAACATTTGGTTTTGTGTA
TAAGTGGTGTGTTGATTAAAAACTTTTTCAATGAACGTATATAAACTATGTTTTATTAACTACAATATATCAGT
AAAAAAAAAAAAAA

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FIGURE 1268

MAAIGVHLGCTSACVAVYKDGRAGVVANDAGDRVTPAVVAYSENEEIVGLAAKQSRIRNISNTVMKVQILGRSS
SDPQAQKYIAESKCLVIEKNGKLYEIDTGEETKFVNPEDVARLIFSKMKETAHSVLSGDANDVVITVPFDFGEK
QKNALGEAARAAGFNVRLIHEPSAALLAYGIGQDSPTGKSNILVFKLGGTSLSLVMEVNNGIYRVLSTNTDDN
IGGAHFTETLAQYLASEFQRSFKHDVRGNARAMMKLTNSAEVAKHSLSTLGSANCFPDSLYEGQDFDCNVSRARF
ELLCSPLFNKCLEAIRGLLDQNGFTADDINKVVLGGSSRIPKLQQLIKDLFPAVELLNSIPPDEVIPIGAAIEA
GILIGKENLLVEDSLMIECSARDILVKGVDSESGASRFTVLFPSGTPLPARRQHTLQAPGSISSVCLELYESDGKN
SAKEETKFAQVVLQDLDDKKENGLRDILAVLTMKRDGSLHVTCTDQETGKCEAISIEIAS

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FIGURE 1269

AGAGAGGGGTGCAAGATCCTGATTTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGGCAGTATGAGCTTCA
ACCCCAGCACACCAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATTCCCAATTGAGAATTGTGTTAG
TGGGTAAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGGCCGGAAGTGTTTCATTCTGGCACTG
CAGCAAAATCCATTACCAAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAATTGTCTGAGTTGACA
CACCAGGCATTTTCGACACAGAGGTGCCCAATGTGAAACGTCCAAGGAGATTATTCGCTGCATTCTTCTGACCT
CCCCAGGGCCTCATGCTCTGCTTCTGGTGGTTCCACTGGGCCGTTTACACTGAGGAAGAGCACAAAGCCACAGAGA
AGATCCTGAAAAATGTTTGGAGAGAGGGCTAGAAGTTTCATGATTCTCATATTCACCCGGAAGATGACTTAGGTG
ACACCAATTTGCATGACTACTTAAAGGGAAGCTCCAGAAGACATTCAAGACTTGATGGACATTTTCGGTGACCGCT
ACTGTGCGTTAAACAACAAGGCAACAGGCGCTGAGCAGGAGGCCAGAGGGCACAGTTGCTGGGCCTGATCCAGC
GCGTGGTGAGGGGAGAACAAGGAAGGCTGCTACACTAATAGGATGTACCAAAGGGCGGAGGAGGAGATCCAGAAGC
AAACACAAGCAATGCAAGAATCCACAGAGTGGAGCTGGAGAGAGAGAAAGCGCGGATAAGAGAGGAGTATGAAG
AGAAAAATCAGAAAGCTGGAAGATAAAGTGGAGCAGGAAAAAGAGAAAGCAAAATGGAGAAGAACTAGCAGAAC
AGGAGGCTCACTATGCTGTAAGGCAGCAAAGGGCAAGAACGGAAGTGGAGAGTAAGGATGGGATACTTGAATTAA
TCATGACAGCGTTACAGATTGCTTCCCTTTATTTTGTACGTCGTTCGCGGAAGATTAACTTAATGAAAACTG
TTTGTATTTTCTGCATATTCTCTGGCAACCTTGCCCCATACTTACTTATTTAGCATAGTCGAGTGCTCTAGTTTC
TGCTCTCAGGCACCTCGTAATAAGGACCACCATTGGCCATTGGTAGATGTTTGATTGACTTAACAAGAGAGGGA
CAAATTTTCAATTTGTGAACTCCAAAGCAGAAAGTATTGGTGCTTGCTACCTTGTAATCTTCCCTTAGACATG
CAGAGAAAATGTATGCAAGAGACCAAAAAGATGGCTCCAAGCTATGTCATGTTACCTGTAATAAAATCTTTCTT
CTAGATTCTCTCTATGTTGGCAGATAATCTCCCCTTGTAGCTTCCACTCACTTATTCTTGCATTAGAGTCACAA
TGATCATCTTACCCATGTGGTTTTTGGAGAAAGAAAGATCAATCTTTGTTTGCAGTGGGTAATCTTAGAGATGGA
GATGATTGTAGAATTATTCCTAGATGAGTGTCAATTTATTTAATTCCATTGTCATATAAGGAGTCAAATTGTTTC
TTATCATTTGTTTCATTGAAGAACAGAGACCTGTCTGGAAAATCGATCTCTACAAATTCATTAATAATGATCCC
CAAATGCTGAAAAAGTGAATACAGCAATTCAACAGATAATAGAGCAATGTTTAGTATATTCAGCTGTATCTGTA
GAACTCTTTGACGAACCTCAATTTAACCAATTTGATGAATACCCAGTTCTCTCTTTTCTAGAGAAAGATAGTT
GCAACCTCACCTCCCTCACTCAACACTTTGAATACTTATTGTTTGGCAGGTCATCCACACTTCTGCCCCACT
GCATTGAATTTTTTGCTTATGTTGTTTATAATAAACTTTTCAATTATCTC

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FIGURE 1270

MAAQYGSMFNPSTPGASYGPGRQEPRNSQLRIVLVGKTGAGKSATGNSILGRKVFHSGTAAKSITKKCEKRSSS
WKETELVVVDTPGIFDTEVPNAETSKEIIRCILLTSPGPHALLLVVPLGRYTEEEHKATEKILKMFGERARFMI
LIFTRKDDLGDNLHDYLRAPEDIQDLMDIFGDRYCALNNKATGAEQEAQRAQLLGLIQRVVRENKEGCYTNRM
YQRAEEEIQKQTQAMQELHRVELEREKARIREEYEEKIRKLEDKVEQEKRKKQMEKKLAEQEAHYAVRQQRARTE
VESKDGILELIMTALQIASFILLRLFAED

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FIGURE 1271

AGTCGCCTGGAAGCGTCCGCCCAAGGTCGCGGGCCGCTTGGGGAGTCAGCAGCGCGCCAGGCCCTTCGGGCCCC
ACACGCATTAGGTGCCTTCTTGATGGGTACGGAGTGAACGCGGGCGGCGGGGACCGAGGCAGCGCCAGTTTG
TAACCGCCGCGCGCCCGTCCCGCGCGCGCCACACCCAGCGCGCTTCCGGCCGGGCCACGTGACCGCGCGTGC
ACGTGTTCCGGCCTCTCCGCTTCGCGCTCCGAACCTCTCTGGTCTGTCGGGCATTCTGTCACCGCGGAGCCGG
CTTGGGCGGGGCCGGGAGGCGGCGCGGAGAGCCGCGGAGACGCGAGCGCGAGCGTCCGAGGGAGCAGGC
CCGGGCAGGCAAGCGCGGCGCTCCGCCATGAACCCAGGGGCTGTTCAGGACTTCAACCCAGTAAGTTTCTCA
TCTACACCTGCCTGCTGCTCTTCTCGGTGCTGCTGCCCCCTCCGCCTGGACGGCATCATCCAATGGAGCTACTGGG
CCGTCTTTGCCCCCATATGGCTGTGGAAGCTTCTAGTCGTGCGAGGCGCCTTCGTGGGCGCGGGCGTTTGGGCCC
GCAACCCTCGCTACCGCACCGAGGGAGAGGCTGTGTGGAGTTCAAAGCCATGCTGATCGCTGTGGGCATCCACC
TGCTGCTGCTCATGTTTGAAGTCTGGTCTGCGACAGGGTGGAGAGGGGCACCCACTTCTGGCTGCTGGTCTTCA
TGCTCTCTTCTTCGTGTCCCCGTGTCCGTGGCTGCCTGCGTCTGGGGCTTTCGACACGATAGGTGCTGGAGC
TGAGATCCTGTGCTCGGTCAACATCCTGCAGTTCATCTTCATCGCCCTAAAGCTGGACAGGATTATTCAGTGGC
CGTGGCTGGTGGTGTGTTGTGCCCCGTGGATCCTCATGTCGTTTCTTGCCTGGTCTCCTCTATTACATCGTCT
GGTCCCTCCTGTTTCTGCGGTCCCTGGATGTGGTTGCCGAGCAGCGGAGAACACACGTGACCATGGCTATCAGTT
GGATAACGATTGTCGTGCCTCTGCTCACTTTTGAGGTCTGCTGGTTCACAGATTGGATGGCCACAATACATTCT
CCTACGTCTCCATATTTGTCCCCCTCTGGCTTTTCTTACTAATTTAATGGCCACAACATTTAGGCGAAAGGGGG
GCAATCATTGGTGGTTTGGCATTGCGAGAGACTTCGTGCTAGTTTCTGCTTGAAATTTTCCCATTTTAAAGAGAAT
ATGGGAACATTTTCATATGATCTCCATCACGAAGATAGTGAAGATGCTGAAGAAACATCAGTTCCAGAAGCTCCGA
AAATTGCTCCAATATTTGGAAAGAAGGCCAGAGTAGTTATAACCCAGAGCCCTGGGAAATACGTTCCCCCCCCCTC
CCAAGTTAAATATTGATATGCCAGATTAACTCCTAGAGAGGACCCAGGCACACACAGACTCCACTTGGCCTTCG
CCTCTTGTTTATTCTCCCAAACCTGGAAATGGAAACAGGCTTCAAACACTCGTCTCACGCCGTGTTTGAGATCA
CCGCCATCAGTATGCATCATAGATGGAGATGGTTTTCAGTATGTGGGTGTGTGTGATGTGTACCTGGGTAAGAG
ACTTGCTTTCAGGTTTCGCACTTTCAGGTGTAGCTGGGGCAGTAAGTCGAATTGTTTTAGTAGGTCTCAAAG
GAATAACCACACAGCTGTTTGTGTTAAATGCTACTGTACCTATCAAACTATTGTTTAAAAAGTATTTTATACAC
TGCTAATCTAAAATTGTATTTAGATTGTGCCTGTATACAATAGCAAATGTAAAAAGTTCAAAAAAAAAAAAA
AAAAAA

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FIGURE 1272

MLIAVGIIHLLLLMFEVLVCDRVERGTHFWLLVFMPLFFVSPVSVAACVWGFRHRSLELEILCSVNIQFIFIAL
KLDRIIHWPWLVVVPLWILMSFLCLVLYYIVWSLLFLRSLDVVAEQRRTHVTMAISWITIVVPLLTFEVLLVH
RLDGHNTFSYVSIFVPLWLSLLTLMATTFRKGGNHHWFGIRRDFCQFLLEIFPFLREYGNISYDLHHEDSEDAE
ETSVPEAPKIAPIFGKKARVVITQSPGKYVPPPKLNIDMPD

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FIGURE 1273

GTGTTTTCTGCGTGAGAGGAAAAGATGCTAGAACACAGGAGAATGGCGTGATTGACCTACCAGATTATGAGCAT
GTAGAAGATGAACTTTTCTCCTTTCCACCTCCAGCCTCTCCAGAGAGACAAGATGGTGAAGGAACTGAGCCT
GATGAAGAGTCAGGAAATGGAGCACCTGTTCTGTACCTCCAAAGAGAACAGTTAAAAGAAATATACCCAAGCTG
GATGCTCAGAGATTAAATTTAGAGAGAGGACTTCCAGCCTTAAGGCATGTATTTGATAAGGCAAAATTCAAAGGT
AAAGGTCATGAGGCTGAAGACTTGAAGATGCTAATCAGACACATGGAGCACTGGGCACATAGGCTATTCCCTAAA
CTGCAGTTTGAGGATTTTATTGACAGAGTTGAATACCTGGGAAGTAAAAGGAAGTTCAGACCTGTTTAAACGA
ATTGCACTTGATCTCCCTATTTTACATGAAGATTTGTTAGCAATAATGATGAAGTTGCGGAGAATAATGAACAT
GATGTCACTTCTACTGAATTAGATCCCTTTCTGACAACTTATCTGAAAGTGAGATGTTTGCTTCTGAGTTAAGT
AGAAGCCTAACAGAAGAGCAACAACGAAGAATTGAGAGAAATAACAACCTGGCCTTGGAAGAAGGCAGGCAAAG
CTGCTGAGTAATAGTCAGACCCTAGGAAATGATATGTTAATGAATACACCCAGGGCACACACGGTTGAAGAGGTT
AATACTGATGAGGATCAAAGGAGGAGTCAAATGGATTAAACGAAGACATTCTGGACAATCCATGTAATGATGCT
ATTGCCAATACTTTAAATGAAGAGGAAACACTGCTGGACCAGTCTTTTAAAAATGTGCAACAGCAACTTGATGCT
ACATCCAGAAATATTACTGAAGCTAGATAAGTTTTCCATTAAGAGAAAATGTATCTGTTAAGTCATCGTCCTGCAA
GCTTGGCGTTACTATGTATTTTTTCTTCTTGAGTGAAAATCCTTAGATAGTAAAACCTTTATAGATTATTGTTT
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1274

MLEPQENGVIDLPDYEHVEDETFFPPPPPASPERQDGEGETEPDEESGNGAPVPVPPKRTVKNIPKLD A QRLISE
RGLPALRHVFDKAKFKGKGHEADLKMLIRHMEHWAHRLF PKLQFEDFIDRVEYLGSKKEVQTCLKRIRLDLPIL
HEDFVSNNDEVAENNEHDVTSTELDPFLTNLSESEMFASELSRSLTEEQQRRIERNKQLALERRQAKLLSNSQTL
GNDMLMNTPRAHTVEEVNTDEDQKEESNGLNEDILDNPCNDAIANTLNEEETLLDQSFKNVQQQLDATSRNITEA
R

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FIGURE 1275

GGCACGAGGCAGGCCAGGTGTGTGCGTCCGTCGGTCTTTCCGTGCCCCACGCCGGAGACCAGCCCCGGAGGCCGCC
TGGGCCTATCCCTGTGCCAGGCACCAATGAAGCAGGAGTCTGCAGCCCCGAACACCCCGCCACCTCGCAGTCCCC
TACGCCGTCCGCTCAGTTCCCCCGAAACGACGGCGACCCTCAAGCGCTGTGGATTTTCGGGTACGGCTCCCTGGT
GTGGAGGCCCGACTTCGCCTACAGCGACAGCCGTGTGGGCTTCGTGCGCGGCTACAGCCGCGGTTTCTGGCAGGG
AGACACCTTCCATCGGGGCAGCGACAAGATGCCTGGCCGTGTGGTGACGCTCCTTGAAGATCATGAGGGCTGCAC
TTGGGGCGTGGCATAACCAAGTGCAAGGGGAGCAGGTAAGCAAGGCCCTGAAGTACCTGAATGTGCCGAGAGGCAGT
GCTTGGTGGCTACGATAACCAAGGAGGTACCTTCTATCCCCAAGATGCTCCTGACCAACCACTGAAGGCATTGGC
CTATGTGGCCACCCACAGAACCCTGGTTACCTGGGCCCTGCGCCTGAAGAGGCCATTGCCACGCAGATCCTGGC
CTGCCGGGGCTTCTCCGGCCACAACCTTGAATACTTGCTGCGTCTGGCAGACTTCATGCAGCTCTGTGGGCCTCA
GGCGCAGGACGAGCACCTGGCAGCCATCGTGGACGCTGTGGGCACCATGTTGCCCTGCTTCTGCCCCACCGAGCA
GGCTCTGGCGCTGGTGTGAGGGGCTGAGCCCCTGCGGGGAGTGCTCATGTGGACATCAGGGCCAGACACCCACTC
CAGTGACAAGACAGACTTGCAGCCGCTTGAGCCCACTGAGCAGATATGGTGGGTGGCTGGAGGCTTCTCTTTCT
CAGTCCCTGCCTGTCTGCCAGCCTGCAGCTCTCCTGCTTGACACTGACTTACTACTTGAACTTTATTTATTGCA
CCATGTTGGTGTGGTGGGCAGGTGGAGGGCCTGCCCTGGACACAGGGGGCCCTGCTGAGCAGTGGCCCCATCCTGG
AACTTGACCAGATTCCCCCAGTGCTGCTGCTAACCCACACCCAGGCCTCCACCTCCCCAGGGAGTCTCCA
AGAGCCTCGATCCTCTGCTCACTCAGCCCAGCCATCCATAGCCCTGGGAATTCCACCTGCCAAGGATCCCAGCAG
GCTGGATGAGGGATAGTAGGGCATGAGGAGAAGGAGCCCTGTAAGGACTGAGGCCCCGGCCAGCCCTTCTCCTCC
ACCAGTTCCCCAGAGCAGAGCTGGAGCTGATGCCTGGACACAGCTGCTGAGCCTGGCCTGGGCCTCTTACCCACT
TGGTTGTTTTCTGTCCCTCTGTCTGTCTGTCTATCTACTTGTCTGTCTGGGCCACTCCTGCCTGTGTGTTGGTC
TATTCTGGGAAGCTCATCACTACAGGCCCTGGCAACCTTCCAGTCTGTCCCATCTGTTACCCATAAACTAT
CTCTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1276

MKQESAAPNTPTPTSQSPTPSAQFPRNDGDPQALWIFGYGSLVWRPDFAYSDSRVGFVRGYSRRFWQGDTFHRGSD
KMPGRVVTLLLEDHEGCTWGVAYQVQGEQVSKALKYLVREAVLGGYDTKEVTFYPQDAPDQPLKALAYVATPQNP
GYLGPAPEEAIATQILACRGFSGHNLEYLLRLADFMQLCGFQAQDEHLAAIVDAVGTMLPFCFCPTAQALALV

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FIGURE 1277A

TGAGGGAAGAAGAGGAAGCGGGAGGAGCTTGGCTTCTCGCGTATTTGAGGACAGCCCATCTCCCTTCAAGAACC
CTACGGAGAGTCGGACTGCATCTCCGAGCGAGCTCTTGGAGCGCCGCCGGGAGGCGAAGCATCGAGGCGG
CTCCGCGCGCCGGCTGCGGGGAGCGCTCCTGCTGTGGATTGTGAGCAGCTGCCCTGTCAGAGCCTGGACGGCTC
CCTCCACGTCCCAAAAATGTGATGAGCCACTTGTCTGTGGACTCCCCATGTGGCTTTCAGCAGCTCCTCCTCCA
TCTCTGGTAGCTATTCTCCCGGCTATGCCAAGATAAAACAAGAGAGGAGGTGCTGGGGGATGGTCTCCATCAGACA
GCGACCATTATCAATGGCTTCAGGTTGACTTTGGCAATCGGAAGCAGATCAGTGGCATTGCAACCCAAGGAAGGT
ATAGCAGCTCAGATTGGGTGACCAATACCGGATGCTCTACAGCGACACAGGGAGAACTGGAAACCCCTATCATC
AAGATGGGAATATCTGGGCATTTCCCGGAAACATTAACCTCTGACGGTGTGGTCCGGCAGCAATTACAGCATCCGA
TTATTGCCCGCTATGTGCGCATAGTGCCTCTGGATTGGAATGGAGAAGGTGCGATTGGACTCAGAATTGAAGTTT
ATGGCTGTCTTACTGGGCTGATGTTATCACTTTGATGGCCATGTTGATTACCATATAGATTAGAAACAAGA
AGATGAAAACACTGAAAGATGTCATTGCCTTGAACCTTAAGACGTCTGAAAGTGAAGGAGTAATCTGCACGGAG
AAGGACAGCAAGGAGATTACATTACCTTGGAACTGAAAAAGCCAAGCTGGTCTCAGTTTAACTTAGGAAGCA
ACCAGCTTGGCCCCATATATGGCCACACATCAGTGATGACAGGAAGTTGCTGGATGACCACCACTGGCACTCTG
TGGTCATTGAGCGCCAGGGGCGGAGCATTAACTCAGCTCTGGACAGGAGCATGCAGCACTTCCGTACCAATGGAG
AGTTTGACTACCTGGACTTGGACTATGAGATAACCTTTGGAGGCATCCCTTTCTCTGGCAAGCCCAGCTCCAGCA
GTAGAAAGAATTTCAAAGGCTGCATGGAAAGCATCACTACAATGGCGTCAACATTACTGATCTTGCCAGAAGGA
AGAAATTAGAGCCCTCAAATGTGGGAAATTTGAGCTTTCTTGTGTGGAACCCCTATACGGTGCCTGTCTTTTCA
ACGCTACAAGTTACCTGGAGGTGCGCGGACGGCTTAACAGGACCTGTTCTCAGTCAGTTCCAGTTTAGGACAT
GGAACCCCAATGGTCTCCTGGTCTTCAGTCACTTTGCGGATAATTTGGGCAATGTGGAGATTGACCTCACTGAAA
GCAAAGTGGGTGTTACATCAACATCACACAGACCAAGATGAGCCAAATCGATATTTCCCTCAGGTTCTGGGTGA
ATGATGGACAGTGGCAGGAGTTCGCTTCTAGCCAAGGAAAATTTTGTATTCTCACCATCGATGGAGATGAAG
CATCAGCAGTTGCAACTAATAGTCCCTTCAAGTTAAACTGGCGAGAAGTACTTTTTTGGAGGTTTTCTGAACC
AGATGAATAACTCAAGTCACTCTGTCTTCAAGCTTCAATCCAAGGATGCATGCAGCTCATTCAAGTGGACGATC
AACTTGTAATTTATACGAAGTGGCACAAGGAAGCCGGGAAGTTTCGCGAATGTGAGCATTGACATGTGTGCGA
TCATAGACAGATGTGTGCCAATCACTGTGAGCATGGTGGAAAGTGTGCGAAACATGGGACAGCTTCAAATGCA
CTTGTGATGAGACAGGATACAGTGGGGCCACCTGCCACAACCTCTATCTACGAGCCTTCCCTGTGAAGCCTACAAAC
ACCTAGGACAGACATCAAATTATTACTGGATAGATCCTGATGGCAGCGGACCTCTGGGGCCTCTGAAAGTTTACT
GCAACATGACAGAGGACAAAGTGTGGACCATAGTGTCTCATGACTTGCAGATGCAGACGCCTGTGGTCCGGCTACA
ACCCAGAAAAATACTCAGTGACACAGCTCGTTTACAGCGCCTCCATGGACCAGATAAGTGCCATCACTGACAGTG
CCGAGTACIGCGAGCAGTATGTCTCCTATTCTGCAAGATGTCAAGATTGTTGAACACCCAGATGGAAGCCCTT
ACACTTGGTGGGTTGGCAAAGCCAACGAGAAGCACTACTACTGGGGAGGCTCTGGGCCTGGAATCCAGAAATGTG
CCTGCGGCATCGAACGCAACTGCACAGATCCCAAGTACTACTGTAACTGCGACGCGGACTACAAGCAATGGAGGA
AGGATGCTGGTTCTTATCATACAAAGATCACCTGCCAGTGAGCCAAGTGGTGGTGGAGATACTGACCGTCAAG
GCTCAGAAGCCAAATTGAGCGTAGGTCTCTGCGCTGCCAAGGAGACAGGAATTATTGGAATGCCGCTCTTTCC
CAAACCCATCCTCCTACCTGCACTTCTCTACTTTCCAAGGGGAACTAGCGCTGACATTTCTTTCTACTTCAAAA
CATTAAACCCCTGGGGAGTGTCTTGTGAAAATATGGGAAAGGAAGATTTCATCAAGCTGGAGCTGAAGTCTGCCA
CAGAAGTGTCTTTTCAATTTGATGTGGGAAATGGGCCAGTAGAGATTGTAGTGAGGTACCAACCCCTCTCAACG
ATGACCAAGTGGCACCAGGCTCACTGCAGAGAGGAATGTCAAGCAGGCCAGCCTACAGGTGGACCGGCTACCGCAGC
AGATCCGCAAGGCCCAACAGAAGGCCACACCCGCTGGAGCTCTACAGCCAGTTATTTGTGGGTGGTGTGGGG
GCCAGCAGGGCTTCTGGGCTGCATCCGCTCCTTGAGGATGAATGGGGTGACACTTGACCTGGAGGAAAGAGCAA
AGGTCACATCTGGGTTCAATATCCGGATGCTCGGGCCATTGCACCAGCTATGGAACAACTGTGAAAATGGAGGCA
AATGCCTAGAGAGATACCACGGTTACTCCTGCGATTGCTCTAATACTGCATATGATGGAACATTTTGAACAAG
ATGTTGGTGCAATTTTGAAGAAGGGATGTGGCTACGATATAACTTTCAGGCACCAGCAACAAATGCCAGAGACT
CCAGCAGCAGAGTAGACAACGCTCCCGACCAGCAGAACTCCCACCCGGACCTGGCACAGGAGGAGATCCGCTTCA
GCTTCAGCACCACCAAGGCGCCCTGCATTCTCCTCTACATCAGCTCCTTCACCACAGACTTCTTGGCAGTCTCTG
TCAAACCCACTGGAAGCTTACAGATTGATACAACTGGGTGGCACCCGAGAGCCATACAATATTGACGTAGACC
ACAGGAACATGGCCAATGGACAGCCCCACAGTGTCAACATCACCCGCCACGAGAAGACCATCTTTCTCAAGCTCG
ATCATTATCCTTCTGTGAGTTACCATCTGCCAAGTTCATCCGACACCCTCTTCAATCTCCCAAGTCGCTCTTTT

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FIGURE 1277B

TGGGAAAAGTTATAGAAACAGGGAAAATTGACCAAGAGATTACAAAATACAAACCCCCAGGATTCACTGGTTGCC
TCTCCAGAGTCCAGTTCAACCAGATCGCCCCCTCTCAAGGCCGCTTGAGGCAGACAAACGCCCTCGGCTCACGTCC
ACATCCAGGGCGAGCTGGTGGAGTCCAACCTGCGGGGCTCGCCGCTGACCCTCTCCCCATGTCGTCCGCCACCG
ACCCCTGGCACCTGGATCACCTGGATTGAGCCAGTGGGATTTTCCATATAATCCAGGACAAGGCCAAGCTATAA
GAAATGGAGTCAACAGAACTCGGCTATCATTGGAGGCGTCATTGCTGTGGTGATTTTACCATCCTGTGCACCC
TGGTCTTCCTGATCCGGTACATGTTCCGCCACAAGGGCACCTACCATAACCAAGCAAGCAAGGGGGCGGAGTCGG
CAGAGAGCGCGGACGCCGCCATCATGAACAACGACCCCACTTCACAGAGACCATTGATGAAAGCAAAAAGGAAT
GGCTCATTGAGGGGTGGCTACTTGGCTATGGGATAGGGAGGAGGAATTACTAGGGAGGAGAGAAAAGGACAAA
AGCACCCCTGCTTCATACTCTTGAGCACATCCTTAAATATCAGCACAAAGTTGGGGGAGGCAGGCAATGGAATATA
ATGGAATATTCTTGAGACTGATCACAACAAAAACCTTTTAAATATTCTTTATAGCTGAGTTTTCCCTT
CTGTATCAAAACAAAATAATACAAAAATGCTTTTAGAGTTTAAAGCAATGGTTGAAATTTGTAGGTACTATCTGT
CTTATTTTGTGTGTTTATAGAGTGTCTTAAAGACCCGTGGTAAACAGGGCAAGTTTTCTACGTTTTTAAAGAGCCC
TTAGAACGTGGGTATTTTTTTCTTGAGAAAAGCTAATGCACCTACAGATGGCCCCAACATTCTCTCTCTTTG
CTTCTAGTCAACCTTAATGGGCTGTTACAGAACTAGTTCGTGTTTATATACTATTTCTTTTGTGCTCTATAAG
TCGGAAAAGAAAGGGGCAAGAGAACCTATTATTGCCAGTTTTTAAAGCAGAGCTCAATCTATGCCAGCTCTCTG
GCATCTGGGGTTCTGACTGATACCAGCAGTTGAAGGAAGAGAGTGCATGGCACCTGGTGTGTAACGACACAATC
AGCACAACCTGGAGAGAGGCATTAAAGAACCAGGGAAGGTAGTTTGATTTTTTCAATTGAATCTACAAGCTAATATT
GTTCCACGTATGTAGTCTTAGACCAATAGCTGTAACCTATCAGCTGCAATACCATGGTGACCAGCTGTTACAAAAG
ATTTTTCTCTGTTTTATCTGAACATACTGGATTATATATGTATAAGCGCCTCAATGGGGAATTAGAGCCAGAT
GTTATGATTTGTTTGCTCTTTTTCTTTATAGTTATAGCAAAAATATGGATAATTTCTAGTGAATGCATAAATTA
GGTTGCGTTTTCTTATTTTGCTTTAAATCTCTGGTAGTTTTTCCACCCCTGTGACACAATCCTAATAGACAGTGTC
CTGTAATAGGACACAACACAATAAAGTCAAGTTATTATGCTGTACTCTGGATGATATGGAAAACACTGCCATA
TTTTAAATCAACTACTCCACGTGTTTTTCCATCCAATCACACTGCTGTGATTACGGGATCTTTCTCTAAAACGG
ACACATTTGAACCTCAGGTTTCATCACAACCTGGTACCTGTTGCTTCCCAGAGGATGGAGAAGTGTAGTTAATCA
CACCTCTTAGTTTTAATCTGAAATCTTGACCCAGTTATTTAACAATAAATACCTCATTGATTATTTAAAAGTA
ATACACTTCTGTAAACAAATGGGGACAATGCATCCAAAAATCTTTTTAAACAGATTACACAAAATATTATTTCC
AGAAAGGCTACCATTATCATCATTATATTTCAAGCCTCTTATACTTAATAAGCACTTTCTAAAAGTCTTGAGA
TCCCACCATTCTGAGGAATTCATATGATCATTCTTTCTCTTGCCTGGGAGAGGTTAAGAGGCGGTTTTCGAA
GGTATAGATGCTATTGTTCTGATGGCCCGCTGAATAAAATGGAAATTTCTAGTTTGTTAGAATTATGCATTCTTT
TTCAAGATTCTCAGTGTGCCTAACTTATTGGAGCACATCAGTTTCTTGGGTAATGGAAAACATTACCTAGAGTTG
CCAGTGGCACATTACACAGTACAGAGCACATTCCAAGGAGACATTGGACCAGTTAATTTCCCATACAAGTCAAG
GTAACAGAACAAGGGAATCCTGATGCCCTTTTACCATTGCTGGTTGAGCTCAGGCACCTGTCATGGACACCCCTT
AATTTAAAAGGTTTTAATCATTCTCTATAAAATACATTTAAAATGGAAAATACTTAATATCACTAAATATCA
GAACAATGTAACATTACAAATGACATATTGAAAGCAAAGGCTGTTTTATTTAGCCAAGATGATTACCATTAGGA
GTTACTTTATGATTGTTGAAAGCAAATTTTAAACATGATGTTTTAGAAGTGTCTTGATTTTTTAAACCTGGTTT
ACAGGTATTACTTCTGCACTTACCAATAATGCCAGATGGAAATTTATTATTTCTTGCAATTTCCCGTGATAGCTC
TGTTCTTTATGCATTGTCTCAACACTTTCCCTTTTTTCCCAAAATGAGTAGAGAATTAAAGCCACCCAAAACAGC
TTCTGCTACTAAAATGTTCTCATCCTTTCTCCTCCCTCTCCTTTTCTGCCACAAAAGGTGAAAAATGAGATCCA
ATCCTCTCACAAAATTTCAAACCTAGGACACTGGAATGACTGCAGGGATCAGTGGTTCTCCCATATCACCATCA
ATTAAGACATATAGGACACTGTCTTCTTCAAGAGGGTTACAATGTGGCCATCAGACAGGAACCAACGGTGGA
TAAAGTATTAAGTAACTAAGTGCCAAATAAATGCTGGAAATCTTGACCTCTCCTTGGGATTATGGGTGTAACAAA
AATCCCTACATCTGTTTATGAAGGCCATATTCAGTACATTTTAAATGGTAAATAATCTGTTTATGTGAAGAAAA
GAATTAAGTCTTTCTTCCAACCTCTCTCCTTGGATAGCCTAGCACAGTGCAGCCTCCATAACCATGACATTCCCGC
CCAAGCTCTCAGTGCCTAATCCTGCTTTGTCACTTCACATCTCACAAAATCTTGACATCTTACATTCCAATACATT
ATCAAGCAAGCACAAAGTATGCTGGTAGTACCTCTTTAAATAATATGTATAGACAACAACGACAAAAAATAG
ACTGTTTTAAAGTTTCAGGGAAAGTTGGTGGCTGATTTAAAGTTGTGCAGGAAACATCTTCTGTGTATGAAGCAA
ATGTCGATGTTTTGAAAAGCTAGGAGATGACTTTGAATGAATGCAAGGTTAGTGAGATCCTAAGCTCTCAAATA
GCATATTCCTAGAGCTCAAGAAAGCTGGTCCAGGAGGTTGAAAAGCTATTTTGTGTTAAATTATTTCTGGC

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FIGURE 1277C

CCTTCTTAATATTTAAAAATGTATTTCCCTTGTGGCTTTCAACCACCTGCTCAAAAAAGAGACTTGTTACATG
AAAGTTTTTCATTAAAGAGCTGAAAACAAGAATTTAGAGAGCCATTCTAGAAAATGCTCTACTGCCCTGCATTG
ACAAACAAGCATCCTTTACTAACAAGAGCAGGAATTCAGAGGCACAAGAAAAGCATTGGCATGAGCCAAAGAGT
CTGTCTTAATGTTACTTTTGAAAATCTGCTGAGCGGCCACCATATGCAGGCTGAGAGCTGGGCACAGGCGAAGCC
ATTGGAAGCACTTCAGGAACAAGCACACAGCTGTGGGACTTGAACATGCAAGTGTTTCAGGTGTGTCAAGAAGCT
TTTCTTTCCTTCTATGATGGAATCTGTTCTTTTCTATCCTACTTTTTTCTCTCTTCTCCTCCTCACCACATTATA
CCCTGCTCTTACGCAGTAAACGTTTTAATGGCCCGTTTATGTCTCATGCCTCCAAACAACACTGAATTTGAAACC
CCCCATTTTTTCTTTTCAACCACCCTGTTGAGCAATTTTCCCAAAAAAGGGCAGCAATTATTAATTGAATTCAA
GTTTCTAGATTTTACTAAGTTTTATTTTGTGAGGTTTTTAAATTTTTTCAGTGAGCGTGGTGACTGCAGAGGTT
AGTGCTGTGAAAAGCTGGGCTAAATATTCTTTCTGTAAAGTCAAACAGGATTCCATCCCCTGTGAAATAACACAA
AATTTCACTCTCTAAAAGCAACAGCATGTAACTAGAAAGAAAGGAAATTATGTACGTATGCCTAATATTCT
TTGTGAATGTCTTTTCAATTAATAAATTATATTAGAAACCAGATTGATAAATAAAAAATTCAAAGTAGTTTTAA
TTATCCT

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FIGURE 1278

MQAAPRAGCGAALLLWIVSSCLCRAWTAPSTSQKCDEPLVSGLPVAFSSSSSISGSYSPGYAKINKRGGAGGWS
PSDSDHYQWLQVDFGNRKQISAIATQGRYSSSDWVTQYRMLYSDTGRNWKPYHQDGNIAWAFPGNINSDGVVRHEL
QHPITARYVRIVPLDWNAGEGRIGLRIEVYGCSYWADVINFDPGHVVLPRFRNKKMKTLKDVIALNFKTSESEGUI
LHGEGQQGDYITTELKAKLVLSNLGSQLGPIYGHTSVMTGSLDDHHHWSVVIERQGRSINLTDRSMQHF
TNGEFDYLDLDYEITFGGIPFSGKPSSSSSRKNFKGCMESINYNGVNITDLARRKKLEPSNVGNLSFSCVEPYTVP
VFFNATSYLEVPGRLNQDLFSVSFQFRTWNPNGLLVFSHFADNLGNVEIDLTESKVGVHINITQTKMSQIDISSG
SGLNDGQWHEVRFLAKENFAILTIDGDEASAVRTNSPLQVKTGEKYFFGGFLNQMNSSSHSVLQPSFQGCMLIQ
VDDQLVNLVEVAQRKPGSFANVSIDMCAIIDRCVPNHCEHGGKCSQTWDSFKCTCDETGYSGATCHNSIYEPSCE
AYKHLGQTSNYYWIDPDGSGPLGPKVYCNMTEDKVWTIVSHDLQMOTPVVGYNPEKYSVTQLVYSASMDQISAI
TDSA EYCEQVVS YFCKMSRLNTPDGSPYTWWVGKANEKHYYWGGSGPGIQKACACGIERNCTDPKYCNC DADYK
QWRKDAGFLSYKDHLFVSQVVVGDTDRQGSEAKLSVGPLRCQGDRNYWNAASFNPSSYLHFSTFQGETSADISF
YFKLTLPWGVFLENMGKEDFIKLELKSATEVSFSFDVGNPVEIVVRSPTPLNDDQWHRVTAERNVKQASLQVDR
LPQQIRKAPTEGHTRLELYSQLFVGGAGGQQGFLGCIRSLRMNGVTLDLEERAKVTSGFISGCSGHCTSYGTNCE
NGGKCLERYHGYS CDCSNTAYDGTFCNKDVGAFFEEGMWLRYNFQAPATNARDSSSRVDNAPDQQNSHPDLAQEE
IRFSFSTTKAPCILLYISSFTTDFLAVLVKPTGSLQIRYNLGGTREPYNIDVDHRNMANGQPHSVNITRHEKTIF
LKLDHYPVSYSYHLPSSSDTLFNSPKSLFLGKVIETGKIDQEIHKYNTPGFTGCLSRVQFNQIAPLKAALRQTNAS
AHVHIQGELVESNCGASPLTSPMSSATDPWHL DHDLSASADFPYNPGQGQAIRNGVNRNSAIIGGVI AVVIFTI
LCTLVFLIRYMF RHKGT YHTNEAKGAESAESA DAAIMNNDPNFTETIDESKKEWLI

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FIGURE 1279

AAAAACAACCATTTCTCTGCTGAGAGCCAGGGAAGGCGAGCTCTGCGCACACGGGCGTCCCTGCAGCAGCC
ACTCTGCTTTCCAGGACCGGCCAACTGCCCTGGAGGCATCCACACAGGGGCCAGGCAGCACAGAGGAGCTGTGA
ACCCGCTCCACACCGGCCACCCTGCCCGGAGCCTGGCACTCACAGCAGGCCGGTGCTAAGGAGTGTGGCGCGGGC
TCGACTCCCACTGCTGCCGGCCTCCCGAGTGACTCTGTTTTCCACTGCTGCAGGCGAGAAGAGGCACGCGCGGCA
CAGGCCGGCCTCCGCTTCCCGGAAGACGGCGCACTCCTGGCCCTGGGTCTTGCTGCTGCCACCCTCTGCTCC
CTGGGATGGGCCCCGAGGCGAGCAGCTTCAGCACAGGCCTGGCCCTGCTCCAGGTGCAGGAAGGAGGATAAGGCC
GGGCGAGAGGCGGCACACCTGGACCATCCCATGGGCCCTCCGCCCGCGCCCGCCGAGGATGAGTGGTGATGTCC
TCTAGCCACCCCTAGCAGCGTCGGCTCTCCCTGGACGTGCGGCCGCGGACTGGGACTTGGCTTTCTCCGGATAAG
CGGCGGCACCGGCGTCAGCGATCACCGTGCAGAGACTCGTGGCCGCGGCCGTGCTGGTGGCCCTGGTCTCACTCA
TCCTCAACAACGTGGCGGCCTTACCTCCAACCTGGGTGTGCCAGACGCTGGAGGATGGGCGCAGGCGCAGCGTGG
GGCTGTGGAGGTCTGCTGGCTGGTGGACAGGACCCGGGAGGGCCGAGCCCTGGGGCCAGAGCCGGCCAGGTGG
ACGCACATGACTGTGAGGCGCTGGGCTGGGGCTCCGAGGCGAGCCGGCTTCCAGGAGTCCCGAGGCACCGTCAAAC
TGCAGTTCGACATGATGCGCGCCTGCAACCTGGTGGCCACGGCCGCGCTCACCGCAGGCCAGCTCACCTTCCTCC
TGGGGCTGGTGGCCCTGCCCTGCTGTCAACCGACGCCCCGTGCTGGGAGGAGGCCATGGCCGCTGCATTCCAAC
TGGCGAGTTTTGTCTGGTTCATCGGGCTCGTGACTTTCTACAGAATTGGCCATACCAACCTGTCTGTGCTCTG
CTACCTGAACATTGGCGCCTGCCTTCTGGCCACGCTGGCGGCAGCCATGCTCATCTGGAACATTCTCCACAAGAG
GGAGGACTGCATGGCCCCCGGGTGATTGTCATCAGCCGCTCCCTGACAGCGCGCTTTCGCCGTGGGCTGGACAA
TGACTACGTGGAGTCACCATGCTGAGTCGCCCTTCTCAGCGTTCCATCGATGCACACCTGCTATCGTGGAACAGC
CTAGAAACCAAGGGACTCCACCACCAAGTCACTTCCCCTGCTCGTGCAGAGGCACGGGATGAGTCTGGGTGACCT
CTGCGCCATGCGTGCAGACACGTGTGCGTTTACTGTTATGTCGGTCATATGTCTGTACGTGCTGTTGGGCCAACC
TCGTTCTGCCTCCAGCTTTCTGGTTAGCGCAACGCGGCTCCACGACCACACGCACTTCAGGGTGGAAGCTGGAA
GCTGAGACACAGGTTAGGTGGCGCGAGGCTGCCCTGCGCTCCGCTTTGCTTTGGGATTAATTTATTCTGCATCTG
CTGAGAGGGGCACCCACGCCATATCTTACACTTTGGTAAAGCAGAAAACCAGGAAAATTTCTTAAAATATCCAC
AATATTCTTGAGTGAGTCAGAATCTATAGCCGTTAGTGATGGTTTCAGGCAGAATCGTGTTCTGTCTGTTTT
GCTCGATTCTTTCTTAAGTTAAATAAATGAAGCCTCTGAACTTCTGTCTATAAAAAAAAAAAAAAAAAA

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FIGURE 1280

MTVQRLVAAAVLVALVSLILNNVAAFTSNWVCQTLEDGRRRSVGLWRSCWLVDRTTRGGPSPGARAGQVDAHDCEA
LGWGSEAAGFQESRGTVKLQFDMMRACNLVATAALTAGQLTFLGLVGLPLLSPDAPCWEEAMAAAFQLASFVLV
IGLVTFYRIGHTPTCPGPAT

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FIGURE 1281

GCCCGCCCGCGCCCCGACCGCCCGGCCTCGGGCAGCCACTCACCGGTGTCCCCGTCCGCGTCCTTCCTCCCCGG
GTCCCGGCCATGGCGCTGAGTGAACCCATCCTGCCGTCTTCTCCACTTTCGCCAGCCCGTGCCGCGAGCGCGGC
CTGCAGGAGCGCTGGCCGCGCGCCGAACCCGAGTCCGGCGGCACCGACGACGACCTCAACAGCGTGCTGGACTTC
ATCCTGTCTATGGGGCTGGATGGCCTGGGCGCGGAGGCCGCCCCGGAGCCGCGCCGCGCCCGCCCGCTGCG
TTCTATTACCCCGAACCCGCGCGCCCCCGCCCTACAGCGCCCCCGGGGTGGCCTGGTGTCTGAGCTGCTGCGA
CCCCGAGCTGGATGCGCCGTGGGGCCCGCACTGCACGGCCGCTTTCTGCTGGCGCCCGCCGCGCCTGGTCAAG
GCGGAGCCCCCTGAAGCGGACGGCGGGCGGCTACGGCTGCGCCCCCGGGTGACCCGTGGACCGCGCGGCCCTC
AAGCGCGAGGGCGCCCCGGGCGCGCGGCTTCGTGCATGCGAGGTCCCGGGGGCCGCCCCCGCGCCGCGCCGAC
ACACCGCCGCTCAGCCCCGACGGCCCCGCGCGCCTGCCCGCGCCCGGTCCGCGCGCCTCCTTCCCGCCGCTTTC
GGTGGCCCTGGTTTTCGGCGCGCCCCGGGCCCCGGCTGCATTACGCGCCGCTGCGCCCCAGCCTTCGGTCTCTTC
GACGACGCGCCCGCCGCGCGCAGCCCTGGGCTGGCGCCCCCGCGCCCGCGGTCTCCTCACGCCGCTGCG
TCCCGCTGGAGCTGCTGGAGGCCAAGCCAAAGCGCGGCCGCGCTCTTGGCCCCGCAAACGCAACCGCCACTCAC
ACCTGCAGCTACGCGGGCTGCGGCAAGACCTACACCAAGAGTTCGCATCTGAAGGCGCATCTGCGCACGCACACA
GGTGAGAAGCCCTACCACTGCAACTGGGACGGCTGCGGCTGGAAGTTTGC GCGCTCAGACGAGCTCACGCGCCAC
TACCGAAAGCACACGGGCCACCGGCCATTCCAGTGCCATCTGTGCGATCGTGCCTTTTCGCGCTCCGATCACCTG
GCGCTGCACATGAAACGGCACATGTAGCCGGGACGCCCCCGCCACCTGCGGCGGGCCGTGGCGGGTCCCACGCG
CCGGGCGCGGCCCTCCCAAACCTGTGACTGGTATTTATTGGACCCAGAGAACCGGGCCGGGCACAGCGTGGCTA
CAGAGGGTCTCCCTCGATGACGACGACGACGACGCCACCACCCAGCCCCGTCTGTGACTGAAGGCCCGGTGGG
AAAAGACCACGATCCTCCTTGACGAGTTTTGTTTTTCAAATGGTGCAATAATTTAAGTGGCATCTTCTCTCCA
CCGGGTCTACACTAGAGGATCGAGGCTTGTGATGCCTTGTGAGAAATAAGGGCCTTAATTTGTACTGTCTGCGGC
ATTTTTTATAATATTGTATATAGTACTGACAAATATTGTATTACTGTACATAGAGAGACAGGTGGGCATTTTTG
GGCTACCTGGTTCGTTTTTATAAGATTTTGCTGGGTGGTTTTTTTTTAATTAAAAAGTTTTGCATCTTTT

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FIGURE 1282

MALSEPILPSFSSTIFASPCRERGLQERWPRAEPESGGTDDDLNSVLDFILSMGLDGLGAEEAEFPPPPPPPAFY
PEPGAPPPYSAPAGGLVSELLRPELDAPLGPALHGRFLLAPPGRLVKAEPPEADGGGGYGCAPLTRGPRGLKRE
GAPGPAASCMRGPGRPPPPDTPPLSPDGPRLPAPGPRASFPPFGGPGFGAPGPGGLHYAPPAPPAFGLFDDA
AAAAAALGLAPPAARGLLTPPASPLELLEAKPKRGRRSWPRKRTATHTCSYAGCGKTYTKSSHLKAHLRHTGK
PYHCNWDGCGWKFARSDELTRHYRKHTGHRPFQCHLCDRAFSRSDHLALHMKRHM

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FIGURE 1283A

GGTCCCCGGCTGCCCGCAGCCCGCTCGCGGCGCTTCTCCGGCCCGGCTCCTTCTCCGCTCGTTAACGTCGCCAAC
CCCCCCCCACCCCTCATATCTCTCTCCACCCACCCAACCGCCCCCGCTCCTTCTCGCCGCTCGAGTCCGCTTGG
GGGAAAACCTTCAAAGAGCCGGATCGCAGGCTCCCTGCCTACTCCCCACCGGGGATTTCAGACTAGACGCTTGAA
GCAAAGCTGCCATCCCAAGACGACATGCTCTCAGCAACCCCCCTGTATGGGAACGTTACAGCTGGATGAACA
GCGAGAGGGTCCGCATGTGTGGGGCGAGCGAAGACAGGAAAATCCTTGTAATGATGGTGACGCTTCAAAAGCCA
GACTGGAACCTAGGGGAAGAGAATCCCTTGAACCACAACGTGGTGGATGCGAGCACGGCCATAGGATCGATGGCC
TGGCAGCACTGAGCATGGACCGCACTGGCCTGATCCGGGAAGGGCTGCGGGTCCCGGGAAACATCGTCTATTCTA
GCTTGTGTGACTGGGCTCAGAGAAAGGTGCGGAGGCTGCCACAAGCACTCTAGGTGGCCTTGGGTTTTCTTCGG
AAAGAAATCCAGAGATGCAGTTCAAACCGAATACACCCGAGACAGTGGAGGCTTCTGCCGTCTCTGGAAAACCC
CAAATGGCTTCAGTGCTATATACAAAACACCGCTGGAATACAAAAAGTGCTGTAGCCACAGCAGAAGCGCTGG
GCTTGGACAGGCCTGCCAGCGACAAACAGAGCCCTCTCAACATCAATGGTGCTAGTTATCTGCGGCTGCCCTGGG
TCAATCCTTACATGGAGGGTGCCACGCCAGCCATCTACCCTTTCTCGACTCGCCAAATAAGTATTCACTGAACA
TGTACAAGGCCTTGCTACCTCAGCAGTCTACAGCTTGGCCAGCCGCTGTATTCTCCAGTCTGCACCAATGGGG
AGCGCTTTCTCTACCTGCCGCCACCTCACTACGTCGGTCCCCACATCCCATCGTCTTGGCATCACCCATGAGGC
TCTCGACACCTTCGGCCTCCCCAGCCATCCCGCTCTCGTCCATTGCGCAGACAAAAGCTCCCGTGGAAGATGG
GCGTCAGCCCTGGGAATCCTGTTGATTCCCACGCCTATCTCAGATCCAGAACAGTAAGCAGCCAGGGTTCCTT
CTGCCAAGGCGGTACCCAGTGGCCTGCCGGGGGACACAGCTCTCTGTGCCCCCTCGCTCGGCCGTACCCC
GAGTCCACCTTCCCACCCAGCCTGCTGCAGACACCTACTCGGAGTTCCACAAGCACTATGCCAGGATCTCCACCT
CTCCTTCAGTTGCCCTGTCAAAGCCATACATGACAGTTAGCAGCGAGTTCCCCGCGGCCAGGCTCTCCAAATGGCA
AGTATCCCAAGGCTCCGGAAGGGGGCGAAGGTGCCAGCCAGTGCCCGGGCATGCCCGGAAGACAGCGGTTCAAG
ACAGAAAAGACGGCAGCTACCTCCTCTGTTGGAGAAGCAGACCGTTACCAAAGACGTACAGATAAGCCACTAG
ACTTGTCTTCTAAAGTGGTGGATGTAGATGCTTCCAAAGCTGACCACATGAAAAAGATGGCTCCACGGTCTCTGG
TTCACAGCAGGGCTGGAAGTGGCTTAGTGCTCTCCGGAAGTGAGATTCCGAAAGAAACACTATCTCCTCCAGGAA
ATGGTTGTGCTATCTATAGATCTGAAATCATCAGCACTGCTCCCTCATCTGGGTGGTGCCCGGGGCAAGTCCCTA
ACGAAGAGAACAATGGCAAAGCATGTCTGTAAGAAACAAGGCATTGGACTGGGCGATACCACAGCAGCGGAGTT
CATCATGCCCGCGCATGGGCGGCACCGATGCTGTCTACTAACGTTTCAGGGTCAGTGTGAGTGCAGGCCGCC
CAGCCTCCGCATCACCCGCCCAATGCCAATGCAGATGGCACCAAAACCAGCAGGAGCTCTGTAGAAACCACAC
CATCCGTTATTTCAGCACGTGGGCCAGCCCCCGGCCACTCTGCCAAGCACAGTAGCAGCACCAGCAGCAAGGGCG
CCAAAGCCAGCAACCCAGAACCGAGTTTCAAAGCAAACGAGAACGGCCTTCCACCAAGCTCTATATTTCTGTCTC
CAAATGAGGCATTTCAGGTCCCCACCAATTCCCTACCCAGGAGTTACCTCCCTTACCCAGCCCCCTGAGGGCATTG
CTGTAAGTCCCTCTCCTTACATGGCAAAGGACCTGTCTACCTCACCCAGTTTTGTTACCCAATGGCAGTCTGT
TTCCITGGGCACCTTGCCCCAAAGCCTGGGCTGCCCTATGGGCTTCCCACCGGCCGTCCAGAGTTTGTGACCTACC
AAGATGCCCTGGGGTTGGGCATGGTGCATCCCATGTTGATACCACACACGCCCATAGAGATTACTAAAGAGGAGA
AACCAGAGAGGAGATCCCGGTCCCATGAGAGAGCCCGTTACGAGGACCCAACCCTCCGGAATCGGTTTTCCGAGA
TTTTGGAAACTAGCAGCACCAAGTTACATCCAGATGTCCCCACCGACAAGAACCTAAAGCCGAACCCCAACTGGA
ATCAAGGGAAGACTGTTGTCAAAGCGACAAGCTTGTCTACGTAGACCTTCTCCGAGAAGAACCAGATGCTAAAA
CTGACACAAACGTGTCCAAACCCAGCTTTCAGCAGAGAGTGTGGCCAGAGCGCTGAGCCCCCAAGCCCTCAG
TTGAGCCGGCCCTGCAGCAGCACCGTGATTTTCATCGCCCTGAGAGAGGAGTTGGGGCGCATCAGTGACTTCCACG
AAACTTATACTTTCAAACAGCCAGTCTTACCCGTAAGCAAGGACAGTGTTCTGGCAGGTACCAACAAAGAGAACC
TAGGGTTGCCAGTCTCGACTCCATTCTGAGGCCACCTCTGGGGAGCGATGGCCCTGCTGTAACTTTTGGTAAAA
CCCAAGAGGATCCCAAACCATTTTGTGTGGGCAGTGCCCCACCAAGTGTTGGATGTGACCCCCACCTATACCAAAG
ATGGAGCTGATGAGGCTGAATCAAATGATGGCAAAGTTCTGAAACCGAAGCCATCTAAGCTGGCAAAGAGAATCG
CCAATCAGCGGTTACGTGGGTGACCGATTCAAATGTGTCTACTACCGAAGTGTATGCAGATTCCAGTCAGTCA
GCCGGGAGCAACGGGCATTGCAGATGGAAGGATTACAAGAGGACAGTATTTTATGTCTACCCGCTGCTTACTGTG
AGCGTGCAATGATGCGCTTCTCAGAGTTGGAGATGAAAGAAAGAGAAGGTGGCCACCCAGCAACCAAAGACTCCG
AGATGTGCAATTCAGCCAGCCGACTGGGAAAGGTTGAAAGGAAATCAGGACAAAAGCCAAAGTCGGTCACCC
TGGAGGAGGCCATTGCAGAACAGAACGAAAGTGAGAGATGCGAGTATAGTGTGAAACAAGCACCCTGATCCCT
TTGAAGCCCCAGAGGACAAAGATCTTCTGTGGAGAAGTACTTTGTGGAGAGGCAGCCTGTGAGCGAGCCTCCCC

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FIGURE 1283B

CAGACCAGGTGGCCTCGGACATGCCTCACAGCCCCACCCTCCGGGTGGACAGGAAACGCAAAGTCTCAGGTGACA
GCAGCCACACTGAGACCACTGCGGAGGAGGTGCCAGAGGACCCTCTGCTGAAAGCCAAACGCCGACGAGTCTCTA
AAGGGCTCCATCCTAAAAACAACGCCACTTGCTGCACCTTAGAGAACGATGGGAGCAGCAGGTGTCCGCGAGCAG
ATGGCAAACCTGGCCGGCAAAGCAGGAAGGAAGTGACCCAGGCCACTCAGCCTGAGGCCATTCTCAGGGGACTA
ACATCACTGAAGAGAAACCTGGCAGGAAAAGGGCAGAGGCCAAAGGCAACAGAAGCTGGTTCGGAAGAGTCTCTTA
AACCCAGTGACAATGAACAAGGCTTGCTGTGTTCTCCGGCTCTCCGCCATGAAGAGTCTTTTCATCCACCAGTG
CAGGCGGCAAAGCAGGCTCAGCCAAGCTGCGCACCAGCCTCCAGGCCGCTGCCAAACAGCAGAAAATTAAAG
AAAACCAGAAGACAGATGTGCTGTGTGCAGACGAAGAAGAGGATTGCCAGGCTGCCTCCCTGCTGCAGAAATACA
CCGACAACAGCGAGAAGCCATCCGGGAAGAGACTGTGCAAAACCAAACACTTGATCCCTCAGGAGTCCAGGCGGG
GATTGCCACTGACAGGGGAATACTACGTGGAGAATGCCGATGGCAAGGTGACTGTCCGGAGATTAGAAAAGCGGC
CGGAGCCCAGTTCGGACTATGATCTGTACCAGCCAAGCAGGAGCCAAAGCCCTTCGACCGCTTGACAGCAACTGC
TACCAGCCTCCAGTCCACACAGCTGCCATGCTCAAGTTCCCCTCAGGAGACCACCCAGTCTCGCCCTATGCGGC
CGGAAGCACGGAGACTTATTGTCAATAAGAACGCTGGCGAGACCCTTCTGCAGCGGGCAGCCAGGCTTGGCTATG
AGGAAGTGGTCTGTACTGCTTAGAGAACAAGATTTGTGATGTAAATCATCGGGACAACGCAGGTTACTGCGCCC
TGCATGAAGCTTGTCTAGGGGCTGGCTCAACATTGTGCGACACCTCCTGAATATGGCGCTGATGTCAACTGTA
GTGCCCAGGATGGAACAGGCCTCTGCACGATGTGTTGAGAACGATCACTTGAAATGTCCGACTACTTCTCT
CTTATGGTGTGACCCACCTTGGCTACGTACTCAGGTAGAACCATCATGAAAATGACCCACAGTGAACCTATGG
AAAAGTTCTTAACAGATTATTTAAATGACCTCCAGGCTCGCAATGATGATGACGCCAGTGGCACTTGGGACTTCT
ATGGCAGCTCTGTTGTGAACCAGATGATGAAAGTGGCTATGATGTTTTAGCCAACCCCCCAGGACCAGAAGACC
AGGATGATGATGACGATGCCTATAGCGATGTGTTTGAATTTGAATTTTCAGAGACCCCCCTCTTACCGTGTATA
ACATCCAAGTATCTGTGGCTCAGGGGCCACGAAACTGGCTACTGCTTTCGGATGTCCTTAAGAAATTGAAAATGT
CCTCCCGCATATTTGCTGCAATTTTCCAACGTGGAAATTGTCACCATTGCAGAGGCAGAAATTTATCGGCAGG
TTTCTGCAAGTCTCTTGTCTCTTGTCTCAAAGACCTGGAAGCCTTCAACCCTGAAAGTAAGGAGCTGTAGATC
TGGTGGAAATTCACGAACGAAATTCAGACTCTGCTGGGCTCCTCTGTAGAGTGGCTCCACCCAGTGATCTGGCCT
CAGACAACACTACTGGTGAGCAAGCTGGACCCACCATGTACAGTGTGTTATAGTGTAAATCCTTGTGCATATGTGTC
ATAATACAACATATTTCTGTAAAGAAAGGACACTATTACATATGAAAATATCTCTTCTTTATATAAGAGAAATTAC
TCCAGTCAGAAGGACTTAGAAACATGTTTTTTCCTTTTAAACTTTTAAGTCAGTTTTATGAAGTTGTTATAAT
GTTTCTTTACTTTTCAATGCACACATGCTTTGGGATACGTTTGTGTTTTACTTGGAACATTGTTTTCTTTCTTTT
TTAAGGAGAAAAAAATGAGTAAAGGAGCTCCACACTTTGACTTAATTTTCATACAAAGCTCTGATGACAGGCC
ATGACTGTAGAGTGGTCAGAACGTGTGTTGGTTTGGAGGAGCGAATTCGGGGAAGGCACTTGGTGATATAACT
TTGTTTTGTTTACAGAGTACCTGCTCGGGCCAGGTAAATGCTATTGGATGTAATCCAGTAGTGTGTAATATAAAT
TCAAACCATATCCACACACAACAATAATTGTATGAACTTTTATATCCTAATTTAAAGCTGTGAAATTAGTTT
TCACGCATCAAACCGGATTGTTTATATGTTTAAACATTTTATGCTCTTATTTAAAGAAGACTTTGAGCTATTTTT
TTCTGTACCCTGTAAATATTGAAACTAACATAATATGTTGAGGTTGCTTGGAATGTACATAAACTAAAAAT
TTCTGAATCGTGAATAAAAAAAAAAAAAAAAAA

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FIGURE 1284

MPPEARRLIVSKNAGETLLQRAARLGYE EVVLYCLENKICDVNHRDNAGYCALHEACARGWLNIVRHLLLEYGADV
NCSAQDGTREPLHDAVENDHLEIVRLLLSYGADPTLATYSGRTIMKMTHSELMERFLTDYLN DLQGRNDDASGTW
DFYGSSVCEPDDESGYDVLNPPGPEDQDDDDAYS DVFEFEFSETPLLPCYNIQVSVAQG

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FIGURE 1285

GGCACGAGGGCGGGTGGGAAGCCGTGTCTCGCAGTCGTGGACTCGTGCAGCTGGGGCGTCCGCAGCCGCTCGTCA
CCCGCGTGATGCTGTTTTCTGGCGTTGGGCAGCCCGTGGGCGGTGCGAACTGCCTCTCTGCGGAAGGAGGACTGCAT
TGTGTGCGGCCGCGCGCTCCGAGGTCCCCGGGCCTCTGTCTCCGGGCGTCTCCAGCAGCGGGCCTTCGGGGC
CGGTAGCCGCTGGAGTACGGGGCCTTCGGGAGCCGCGCGCCTTCTCCGGCGTCCGGGTGAGCGCAGATCCCTG
TTTATTGGGAAGGATATGTTTCGATTCTTAAATACGCCATCTGACAAATCAGAAGATGGAAGGCTAATTTATACTG
GCAATATGGCCCGAGCAGTGTGTTGGTGTGAAATGTTTCTTATTCTACGAGTCTGATTGGCCTTACATTTCTGC
CATAcATTTTTACACAAAATAATGCTATTTCTGAAAGTGTGCCTCTGCCTATTCAAATCATATTCTATGGCATCA
TGGGAAGCTTTACGGTGATCACCCAGTGCTGCTTCACTTTATTACAAAAGGCTATGTCATTGATTGTACCATG
AGGCCACAACAGACACTTATAAAGCCATTACCTACAATGCTATGCTTGCAAAACGAGTACAGTGTTCACCAGA
ATGATGTGAAGATTCCAGATGCTAAACATGTATTTACCACATTTTATGCTAAAACAAAATCACTGTAGTTAATC
CAGTGCTCTTTCCAAACCGTGAAGACTATATCCATCTAATGGGTTATGACAAAGAAGAATTTATTTGTATATGG
AAGAAACAGTGAAGAGAAACGGCATAAAGATGACAAATTGAGCCCTATTTGTTAGTGTTTCGTGCTCAAATGTGATT
TACGTTTTAATGTATAATAATAAAATTGCCTTTTGCATTCCGTTAGTGACTGATTGTTAAAAATAATTTGAAATT
ATCAAAGCTTTTAAATTTCCAGAGAATGATGTTTGTATAATAAAACAAGCTATGTTTGAAAACCAAATGTAGT
ATCTACCATTCTGTGTTTAGAAAGGTATGTGAATAAATATGTTTCATGCTAGTATAAGAGTTCTGTGTTACTGTGG
TTGACTCTAAACTGGGGATCTGATGTCAGTAGCAAAATGGGAGAGTTGCTTTATTCTTTGTGTATGGATTTTTCTA
AGTGTATAAATATTTCCGACATTAAAAGACATTTTCTCTTTGAGGAAGACACAGTCATAGGTGGTGGGAGCTG
TGGTCCACCTGCTCCTGCTCCTGACTCACTGCTCTTTGCTGTTGCCTGAGGACCAAGTCTGTCAGGAAGCTGGCT
AGGAAGCCTTGCAGCAGCCATGGCTTTTAAACATACCAGAAAAACACCCGTGGAGTCAGAGGTGGCAATTCACCG
AATTCATATCACTCTAACGAGTTGCAACGTAATAATCCCTGGATAAGGTGTGTGCTGACTTGATCTGAGGAGCAAA
GGAAAAGAATCAGTGAAAGGACCAGTTTGAATGCCTACCAAGACTTTGAGAATCACTACAAGAAAACTTACGGT
GAAGGTTCTAAGGCATGGGATCGTTTCCAGATGAGAAATCCACAAGCGACTCATTGACTTGCGCAGTCCTCAGATA
GTTAAGCAGATTACTTCCATCAGTATTGAGCCAGGAGTTGAGATGGAAGTCACCATTGCAAATGCTTAAGTCAAC
TGTTTTATAAATTGATTACCAAGTTGTAAAAAATTTTCAAAAAACCGCAAAATTTCAAGAAATTCACAAATTAT
GGGAGCAGTTTTAAGTCTTCTTTGGTTCAGAACACAGGTTTTTGCCTAACCCCTGGCATGATTGCCATAAGAAC
ATACATGTACAGTTGAACTGGTGGTTAGCTATACGGGAAATGGTAAGTAGTGTTGTCTTCAGTATCTTAATTTGT
TTCTGCAACTGTGCACTCCTCCCTTGGTGGCACCCATGAGGTGTAGGAAAACCACTGTTATTAAACAGGTGAAAA
ATAAAAAATTTTTCAAAAAA

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FIGURE 1286

MARAVFGVKCFSYSTSLIGLTFLPYIFTQNNaisesvPLPIQIIFYGIMGSFTVITPVLLHFITKGYVIRLYHEA
TTDTYKAITYNAMLAETSTVFHQNDVKIPDAKHVFTTFYAKTKSLLVNPVLFNREDYIHLMGYDKEEFILYMEE
TSEKRRHKDDK

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FIGURE 1287A

TTGGGAAACCCCTACCTGTCTGTACCTGTAGGTCTTTTCTCTGGGGTCTGGAAGAAGAAATCCTTCAATATCTTGC
CTTCTGGTAAATCTGAGAGCAGGGCGAGAAAAGGAAGATCAGAGTTCCACCCTTAAATCTGTAGGTTTTCACTCCC
CCACTCTCCTTTGTCAGTCCCGTGGAGTCTCCATCTGAGCCCTTTCTAGTCCAGGCATCCCCATGTTGGTGGATG
GCCCCATCTGAGCGGCCAGCCCTGTGCTTCTTGCTGTTGGCTGTGGCAATGTCTTTCTCGGCTCAGCTCTATCCA
TAGATGAAACACGGGCGCATCTGTTGTTGAAAGAAAAGATGATGCGGCTCGGGGGCGGCTGGTGTGAACACCA
AGGAGGAGCTGGCCAATGAGAGGCTCATGACGCTCAAAATCGCTGAGATGAAGGAGGCCATGAGGACCCTGATAT
TCCCACCCAGCATGCACTTTTTCCAGGCCAAGCATCTCATTGAGAGAAGTCAAGTGTTAATATTCTAAGGATGA
TGCCAAAAGGGGCTGCCTTGACCTCCATGACATTGGCATCGTGACTATGGACTGGCTGGTGAAGGAATGTCACCT
ACAGGCCTCACTGCCACATCTGTTTCACCCCAAGGGGATCATGCAGTTCAGATTTGCTCACCCAACCTCCCGTC
CATCAGAAAAATGTTCCAAGTGGATTCTGCTGGAGGATTATCGGAAGCGGGTGCAGAACGTCAGTGTGATG
ACAGCTTGCTGAGGAATTTCACTCTGGTGACCCAGCACC CGAGGTGATTACACAAACCAAAATGTTGCTGGT
CGAAATTTGAAACCATCTTCTTACCATCTCTGGTCTCATCCATTACGCACCAAGTGTTCAGAGACTATGTCTCC
GGAGCATGCAGGAGTTCTACGAGGACAACGTGCTCTACATGGAGATCAGAGCCAGGCTGCTGCCGGTGTATGAGC
TCAGTGGAGAGCACCATGACGAAGAGTGGTCAGTGAAGACTTACCAGGAAGTAGCTCAGAAGTTTGTGGAAACTC
ACCCTGAGTTTATTGGAATCAAAATCATTATTTCGGATCACAGATCCAAAGATGTGGCTGTCATCGCAGAATCCA
TCCGAATGGCCATGGGGCTCCGAATCAAGTTCCCCACGGTGGTGGCAGGGTTTGACCTGGTGGGGCATGAGGACA
CTGGCCACTCCTTGCGTGACTACAAGGAAGCTCTGATGATCCCCGCCAAGGATGGCGTTAAGTGCCTTACTTCT
TCCACGCCGGAGAAACAGACTGGCAGGGTACTTCCATAGACAGGAACATTCTGGATGCTCTGATGCTGAACACTA
CCAGAATCGGCCATGGATTGCTTTGAGCAACACCCCGCAGTCAGGACTTACTCCTGGAAAAGGACATCCCCA
TAGAAGTCTGTCCCATCTCTAACCAGGTGCTGAAACTGGTGTCTGACTTGAGGAACCACCTGTAGCCACTCTGA
TGGCCACTGGGCACCCCATGGTGATCAGCTCTGATGACCCAGCTATGTTTGGTGCCAAAGGCTTGTCTATGATT
TCTATGAGGCTTCTATGGGCATTGGGGGATGAAGGCTGACCTGAGGACCCTCAAACAGCTGGCCATGAACCTTA
TCAAGTACAGTACCCTGTTGGAGAGTGAGAAAAATACTTTCATGGAAATCTGGAAGAAGAGATGGGATAAGTTCA
TAGCAGATGTGGCTACAAAGTGGAGAGAAGCTAGCCAGCCCTCTACAAGCTGCTTCTTGCACACGCTGTCACTT
CCTCTCACTCGTTCTTGAATCAGCTCCATGTGCCATGAAATCAATGGCCTCTGTATGGAGCGACCCTGTGAGAA
GCACCTTGGCTGGCTGAGCAAAATTCATCCTCTGGAAAATATTCTCTCAGCCACAGTGACATTGACCCTCTTGGTT
TTCTCCTCTCTCTGGCCATTTCTTCCAGTTTCCCTATTTTTCAGAGTCTTCTCCTCTCTCTGATCTCTGTGCTGTTT
CCTCAGGACTCAGTCTGGGCTCTCTTCTATTCTGGTCTCTTTATTTTTTTTATTTTTTGTATTTTTTCGAGATGGA
GTTTTGCTCTTGTGCCCAGGCTGGAGTACAAATGGTGCGATCTCAGCTCAGTGAACCTCCGCCACCCGGGTCA
GGCAATTTCTTCTGATCAGCCTCCCGAGTAGTTGGAATTATAGGCATGTGCCACCACACCCAGCTGATTTTTGCA
TTTTTAGTAGAGACAGGTTTTTACCATGTTGGCGAGCTGGTATCCAACCTCTTGACCTCAGGTGATCCACTCGCCC
CTTGGCTCCCAAAGTGCTGGAATTACAGGCGTTAGCCACCATGCTGGCCTATTCTGGTCTCTTTAACTCTCTCC
TCTTTATTTCTCTCTCTCTCTGTACACTTTTCTGGGTGGTCTCATCCATTCTTTGCTTTTTTCATACCATTTA
TTTGTTAATGATTCCACATTTATTTATGCACTTGGAGAGCTCACAGGAATCTCAGAACTGATGAGGTACAATT
CTGAACCTCAGTCTCTTCCCTTTAAACCTTTCTTTTCTCTACTTTAATTTTTCTAAAGAGTGTCTTGCTATGT
TGCCCAGGCTGGTCTCCAACCTCAAGTGATCCTCTGCCGCAGTCTCCCGAAGTGCTGGGATTACTGACATGAGCC
ACCACACTCAGCCCTTTAAACCTTTCCCTGGCCTTTCCCATAGCTGGTGAAGGACACCTCCATCCATTCCACGCA
GTTGCTCAAAGCAGAAATTTTCAAGTGAAGTCTTGATGCTGCGCGGTCCCCACTCCCTACATCAGAATGCATCCCGCATC
CTCATCTGGACTCCAGCGGTGGCTTCTTGATGCTGCGCGGTCCCCACTCCCTACATCAGAATGCATCCCGCATC
CAGACTCCAGCGGTGGTGTCTACCTGCACGCTGTTGCCAAGTCCAAGCTACCATACTCTGCCTGAGCTATGAC
AACAGCCTCCTCACTGATCTCCCTTTCTTCCCTTTGCCTCTCCAGCTCATTTTTTCACAGTGTAGAATGACATT
TTGTTTGTGTTGTTTGTGTTTGTGTTGAGATGGAGTCTCGTTCTGTTGCCAGGGTGGAGTGCAGCGGTGCGATCTC
GGCTCACTGCAACTTCCACTCCCGGGTCAAGCGGATTCTCGTGCTCAGCCTCCTGAGTAGCTGGGATTACAGG
CATGCACCACCATGCCCGGATAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACTATGTTGGCCAGGCTGGTCT
CGAACACCTGACTTCGTGGTCCACCCGCCCTTCGGCTCCCAAAGCACTGGGATTACAGGCGTGAGCCACCCGGCC
TGGCCTAGAATGACTTTTAAAGATCAAATTAATCAGGTCACTCCTTTGCTTACAACGCAGTGCGTTTAGAGGT
ACACCCCATGTCTCCACAGGGCATAAGCATCCGATTTAATCTGGATCCATTCCGGCGCTTCTCTCCAGTCAC
CCAGAGGGCCCCAACCCCGGCGGCCCTTTCTTCTCAAATGTCTCGGCTCTATACCGTGCTGGGTCTTTTCTC

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FIGURE 1287B

TTTCTCTCGCCTGGAACATTCCCTTCTTTCCCTTTTGTCTTGCCCACTCCTGTTTACCCTTCAAGTTTCAAGTT
CATGTCACGTCTCAGAGAGGTTTTCTGTGCTCGCCCTGTTTCTCTCAGGAAGCCTTGCTCTTTTCCATCATGC
CTCTAATCACAGCTTATAATCGGATATTTATTCTGTGTCTACAGTCTTGCCCTGCCAGACTGTAAGCCCCATGT
GGGCAGGCGCTCATGATTGTTTCTGATTGTTTCACGCATGCTGCTAACCAGAGCCTGGGCCCCAAAGCTAGTTAG
TACTCAATAAACAATGCATTGAAAAAAAAAAAAAAAAAXTA

1423/2682
FIGURE 1288

MLVDGPSEPALCFLLAVAMSFSGSALSIDETRAHLLLEKMMRLGGRLVLNTKEELANERLMTLKIAEMKEAM
RTLIFPPSMHFFQAKHLIERSQVFNILRMMPKGAALHLHDIGIVTMDWLVNRNVTYRPHCHICFTPRGIMQFRFAH
PTPRPSEKCSKWILLEDYRKRQNVTEFDDSLRNFTLVTQHPEVIYTNQNVVWSKFETIFFTISGLIHYAPVFR
DYVFRSMQEFYEDNVLYMEIRARLLPVYELSGEHHDEEWSVKTYQEVAKFVETHPEFIGIKIISDHRSKDVAV
IAESIRMAMGLRIKFPTVVAGFDLVGHEDTGHSLRDYKEALMIPAKDGVKLPYFFHAGETDWQGTSIDRNILDAL
MLNTTRIGHGFALSHPAVRTYSWKDIPIEVCPISNQVLKLVSDLRNHPVATLMATGHMPVISSDDPAMFGAKG
LSYDFYEVFMGIGMKADLRTLKQLAMNSIKYSTLLESEKNTFMEIWKKRWDKFIADVATK

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FIGURE 1289

CCAAGCTCCAGCTGTTTGTCAAGGCGAGTGAGGACGGGGAGAGCGTGGGTCACTGCCCCCTCCTGCCAGCGGTCTT
CATGGTCCTGCTCCTCAAGGGCGTACCTTTCACCCTCACCACGGTGGACACGCGCAGGTCCCCGGACGTGCTGAA
GGACTTCGCCCCCGGCTCGCAGCTGCCCATCCTGCTCTATGACAGCGACGCCAAGACAGACACGCTGCAGATCGA
GGACTTTCTGGAGGAGACGCTGGGGCCGCCGACTTCCCCAGCCTGGCGCCTCGTTACAGGGAGTCCAACACCGC
CGGCAACGACGTTTTCCACAAGTTCTCCGCGTTTCATCAAGAACCCGGTGCCCGCGCAGGACGAAGCCCTGTACCA
GCAGCTGCTGCGCGCCCTCGCCAGGCTGGACAGCTACCTGCGCGCGCCCTGGAGCACGAGCTGGCGGGGGAGCC
GCAGCTGCGCGAGTCCCGCCGCGCTTCTGGACGGCGACAGGCTCACGCTGGCCGACTGCAGCCTCCTGCCCCAA
GCTGCACATCGTCGACACGGTGTGCGCGCACTTCCGCCAGGCGCCCATCCCCGCGGAGCTGCGCGGCGTACGCCG
CTACCTGGACAGCGCGATGCAGGAGAAAGAGTTCAAATACACGTGTCCGCACAGCGCCGAGATCCTGGCGGCCTA
CCGGCCCCCGCTGCACCCCCGCTAGCGCCCCACCCCGCGTCTGTGCCCCAATAAAGGCATCTTTGTGGGAAAAA
AA

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FIGURE 1290

MVLLKGVFFLTITVDTRRSPDVLKDFAPGSQLPILLYDSAKTDTLQIEDFLEETLGPPDFPSLAPRYRESNTA
GNDVFHKFSAFIKNPVPAQDEALYQQLLRALARLDSYLRAPLEHELAGEPQLRESRRRFLDGDRLTLADCSLLPK
LHIVDTVCAHFRQAPIPAELRGVRRYLD SAMQEKFKYTCPHSAEILAAYRPAVHPR

1426/2682
FIGURE 1291

TTGCTGAGTACCCAGAGTTGCGAGGAGTTTTTTAACTGATTTAGCCAGGTGGCAATCATGAGTGAATGGATGAAG
AAAGGCCCCCTTAGAATGGCAAGATTACATTTACAAAGAGGTCCGAGTGACAGCCAGTGAGAAGAATGAGTATAAA
GGATGGGTTTTAACTACAGACCCAGTCTCTGCCAATATTGTCCTTGTGAACCTCCTTGAAGATGGCAGCATGTCT
GTGACCGGAATTATGGGACATGCTGTGCAGACTGTTGAACTATGAATGAAGGGGACCATAGAGTGAGGGAGAAG
CTGATGCATTTGTTACGTCTGGAGACTGCAAAGCATAACAGCCCAGAGGATCTGGAAGAGAGAAAGAACAGCCTA
AAGAAATGGCTTGAGAAGAACCACATCCCCATCACTGAACAGGGAGACGCTCCAAGGACTCTCTGTGTGGCTGGG
GTCCTGACTATAGACCCACCATATGATCCAGAAAATTGCAGCAGCTCTAATGAGATTATTCTGTCGCGTGTTGAG
GATCTTATTGAAGGACATCTTACAGCTTCCCAATTGAGAGGCCAGGAAGTGTAACATACTGATAGAAAAGACTA
TATTTTATCCCTCATAAAATGTTTTAAATGTAAAAAAAAAAAAAAAAA

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FIGURE 1292

MSEWMKKGPLEWQDYIYKEVRVTASEKNEYKGWVLTTPV
SANIVLVNFLEDGSM SVTGIMGHAVQTVETMNEGD
HRVREKLMHLFTSGDCKAYSPEDLEERKNSLKKWLEKN
HIPITEQGDAPRTL CVAGVLTIDPPYDPENCSSSNEI
ILSRVQDLIEGHLTASQ

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FIGURE 1293

AGCCGAGGGCTGCACAAAGACCTTCCTGGCCTGCCCCAGACAGAGCTGAGGACCCCTGGCCGTGGGCTTGGGCCT
CGGCITCACAGGATGGGGCTGCCAGTGTCTGGGCCCCCTCCTGCCCTCTGGGTCTAGGGTGTGCGCCCTGCTC
CTCTCGCTGTGGGCGCTGTGCACAGCCTGCCGCAGGCCCCGAGGACGCTGTAGCCCCCAGGAAGAGGGCGCGGAGG
CAGCGGGCGAGGCTGCAGGGCAGTGCACGCGCGGCGGAAGCGTCCCTACTGAGGCGGACCCACCTCTGCTCCCTC
AGCAAGTCGGACACCAGACTGCACGAGCTGCACCGGGGCCCCGCGCAGCAGCAGGGCCCTGCGGCTGCCAGCATG
GATCTCCTGCGCCACACTGGCTGGAGGTGTCCAGGGACATCACCGGACCGCAGGCAGCCCCCTCTGCCTTCCCA
CACCAGGAGCTGCCCCGGGCTCTGCCGGCAGCTGCAGCCACCGCAGGGTGCCTGGCCTCGAGGCCACCTATTCC
AACGTGGGGCTGGCGGCCCTTCCCGGGGTACGCTGGCGGCCAGCCCTGTGGTGGCCGAGTATGCCCGCTCCAG
AAGCGCAAAGGGACCCATCGCAGTCCCCAAGAGCCACAGCAGGGGAAGACTGAGGTGACCCCGGCCGCTCAGGTG
GACGTCTGTACTCCAGGGTCTGCAAGCCTAAAAGGAGGGACCCAGGACCCACCACAGACCCGCTGGACCCCAAG
GGCCAGGGAGCGATTCTGGCCCTGGCGGGTGACCTGGCCTACCAGACCCTCCCGCTCAGGGCCCTGGATGTGGGC
AGCGGCCCCCTGGAAAACGTGTATGAGAGCATCCGGGAGCTGGGGGACCCTGCTGGCAGGAGCAGCACGTGCGGG
GCTGGGACGCCCCCTGCTTCCAGCTGCCCCAGCCTAGGGAGGGGCTGGAGACCCCTCCCTGCCTCCCTGCCCTGA

ACACTCAAGGACCTGTGCTCCTTCCTCCAGAGTGAGGCCCCGTCCCCGCCCCGCCCCGCTCACAGCTGACAGCG
CCAGTCCCAGGTCCCCGGGCTGCCAGCCCGTGAGGTCCGTGAGGTCTGGCCGCTCTGACAGCCGCGGCTCCCC
GGGCTCCAGAGAAGGCCCGCGCTCTAAATAAAGCGCCAGCGCAGGATGAAAGCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1294

MGLPVSWAPPALWVLGCCALLLSLWALCTACRRPEDAVAPRKRRARRQRARLQGSATAAEASLLRRTHLCSLSKSD
TRLHELHRGPRSSRALRPASMDLLRPHWLEVSRDITGPQAAPSAFPHQELPRALPAAAATAGCAGLEATYSNVGL
AALPGVSLAASPVVAEYARVQKRKGTHRSPQEPQQGKTEVTPAAQVDVLYSRVCKPKRRDPGPTTDPLDPKGQGA
ILALAGDLAYQTLPLRALDVGSGPLENVYESIRELGDPAGRSSTCGAGTPPASSCPSLGRGWRPLPASLP

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FIGURE 1295

ACACACGCTATGCCTTAAATTGGGCCAGGCTGAGGCGCTGCTGCTGGAGCGGCCGATCCGAGACGTGGCTCCCTG
GGCGGCAGAACCATGTTGGACTTCGCGATCTTCGCCGTTACCTTCTTGCTGGCGTTGGTGGGAGCCGTGCTCTAC
CTCTATCCGGCTTCCAGACAAGCTGCAGGAATCCAGGGATTACTCCAAGTGAAGAAAAAGATGGTAATCTTCCA
GATATTGTGAATAGTGAAGTTTGCATGAGTTCCTGGTTAATTTGCATGAGAGATATGGGCCTGTGGTCTCCTTC
TGGTTTGGCAGGCGCGTCGTGGTTAGTTTGGGCACTGTTGATGTACTGAAGCAGCATATCAATCCCAATAAGACA
TTGGACCCCTTTTGAACCATGCTGAAGTCATTATTAAGGTATCAATCTGGTGGTGGCAGTGTGAGTGAAGAACCA
ATGAGGAAAAAATTGTATGAAAATGGTGTGACTGATTCTCTGAAGAGTAACTTTGCCCTCCTCCTAAAGCTTTCA
GAAGAATTATTAGATAAATGGCTCTCCTACCCAGAGACCCAGCACGTGCCCTCAGCCAGCATATGCTTGGTTTT
GCTATGAAGTCTGTTACACAGATGGTAATGGGTAGTACATTTGAAGATGATCAGGAAGTCATTGCTTCCAGAAG
AATCATGGCACACCCTCATGCAACTGGAGTCTGTTTAAGGAACATCATAAAGAACGAAAAGGAAGGAACCTCAG
TCAACATATTTTATTGACTCCTTAGTACAAGGGAACCTTAATGACCAACAGATCCTAGAAGACAGTATGATATTT
TCTCTGCCAGTTGCATAATAACTGCAAAATTGTGTACCTGGGCAATCTGTTTTTAACCACTCTGAAGAAGTT
CAAAAAAATTATATGAAGAGATAAACCAGTTTTTGGAAATGGTCTGTACTCCAGAGAAAATTGAGCAGCTC
AGATATTGTCAGCATGTGCTTTGTGAAGTGTCCGAACGCCAACTGACTCCAGTTTTCTGCCAGTTTCAAGAT
ATTGAAGGAAAAATTGACCGATTTATTATTCCTAGAGAGACCCCTCGTCCTTTATGCCCTTGGTGTGGTACTTCAG
GATCCTAATACTTGGCCATCTCCACACAAGTTTGATCCAGATCGGTTTGATGATGAATTAGTAATGAAAACTTTT
TCCTCACTTGGATTCTCAGGCACACAGGAGTGTCCAGAGTTGAGGTTTGCATATATGGTGACCACAGTACTTCTT
AGTGTATTGGTGAAGAGACTGCACCTACTTTCTGTGGAGGGACAGGTTAATTGAAACAAAGTATGAACTGGTAACA
TCATCAAGGGAAGAAGCTTGGATCACTGTCTCAAAGAGATATTAAAATTTTATACATTTAAATCATTGTAAAT
TGATTGAGGAAAACAACCATTTAAAAAAATCTATGTTGAATCCTTTTATAAACCAGTATCACTTTGTAATATAA
ACACCTATTTGACTTAATTTTGTAAATTTGGATTTTTATATATCATATTTTCTTAATTCATTGGACACATTTGA
CTTACTGCACAGTATATTGATCATTTTAAATGGGAACTTTAGCTTTCTACTTTTAAATTTTGGTTTTTCACTTTC
TATGCCATTATTTTGGATTCTTTTCTTAGTGTGAGCTCTAAATCAATGTTCTTGAAAAAGAAATTATTTTGA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1296

MLDFAIFAVTFLLALVGAVLYLYPASRQAAGIPGITPTEEKDGNLPDIVNSGSLHEFLVNLHERYGPVVSFWFGR
RVVVS LGTV DVLKQHINPNKTLDPFETMLKSLRLRYQSGGGSVSENHMRKKLYENGVTDSLKSNFALLKLSEELL
DKWLSYPETQHVP L SQHMLGFAMKSVTQMVMGSTFEDDQEVIRFQKNHGTPSCNWSLFKEHHKRTKRKELQSTYF
IDSLVQGNLNDQQILED SMIFSLASCIITAKLCTWAICFLT TSEE VQKKLYEEINQVFGNGPVTPEKIEQLRYCQ
HVLCELFRTAKLTPVSAQFQDIEGKIDRFIIPRETLVLYALGVVLQDPNTWPSPHKFDPRFDELVMKTFSSLG
FSGTQECPELRFAYMVTTVLLSVLVKRLHLLSVEGQVIETKYELVTSSREEAWITVSKRY

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FIGURE 1297A

GTGGGATAAAGGAATGAGGTTTCAGAAAGGGGCAGGGAGTTGCCCGCAGCCGCACCGCACGTCTTCAGCCCGACCG
TTGTCTGACCTCTCTGTCCCGTCCCTGCCAGTCTCACCATGGCCTTCTGGACACAGCTGATGCTGCTGCTCT
GGAAGAATTTTCATGTATCGCCGGAGACAGCCGGTCCAGCTCCTGGTGAATTGCTGTGGCCTCTCTTCTCTTCT
TCATCTGGTGGCTGTTCGCCACTCCACCCGCCCCCTGGAGCACCATGAATGCCACTTCCCAAACAAGCCACTGC
CATCGGCGGGCACCCTGCCCTGGCTCCAGGGTCTCATCTGTAATGTGAACAACACCTGCTTTCCGCAGCTGACAC
CGGGCGAGGAGCCCCGGCGCCTGAGCAACTTCAACGACTCCCTGGTCTCCCGGCTGTAGCCGATGCCCGCACTG
TGCTGGGAGGGGCCAGTGCCACAGGACGCTGGCTGGCTAGGGAAGCTGATCGCCACGCTGAGGGCTGCACGCA
GCACGGCCAGCCTCAACCAACCAAGCAGTCTCCACTGGAACCACCCATGCTGGATGTCGCGGAGCTGCTGACGT
CACTGCTGCGCACGGAATCCCTGGGGTTGGCACTGGGCCAAGCCCAGGAGCCCTTGACAGCTTGTGGAGGGCCG
CTGAGGACCTGGCCAGGAGCTCCTGGCGCTGCGCAGCCTGGTGGAGCTTCGGGCCTGCTGCAGAGACCCCGAG
GGACCAGCGGCCCCCTGGAGTTGCTGTGAGAGCCCTCTGCAGTGTGAGGGACCTAGCAGCACAGTGGGCCCT
CCCTCAACTGGTACGAGCTAGTGACCTGATGGAGCTGGTGGGGCAGGAGCCAGAATCCGCCCTGCCAGACAGCA
GCCTGAGCCCCGCTGCTCGGAGCTGATTGGAGCCCTGGACAGCCACCCGCTGTCCCGCTGCTCTGGAGACGCC
TGAAGCCTCTGATCCTCGGAAGCTACTCTTGCACCAGATACACCTTTTACCCGGAAGCTCATGGCCCAGGTCA
ACCGGACCTTCGAGGAGCTCACCTGCTGAGGGATGTCCGGGAGGTGTGGGAGATGCTGGGACCCCGGATCTTCA
CCTTCATGAACGACAGTTCCAATGTGGCCATGCTGCAGCGGCTCCTGCAGATGCAGGATGAAGGAAGAAGGCAGC
CCAGACCTGGAGGCCGGGACCACATGGAGGCCCTGCGATCCTTTCTGGACCCTGGGAGCGGTGGCTACAGCTGGC
AGGACGCACACGCTGATGTGGGGCACCTGGTGGGCACGCTGGGCCGAGTGACGGAGTGCCTGTCTTGGACAAGC
TGGAGGCGCACCCCTCAGAGGCAGCCCTGGTGTGCGGGGCCCTGCAACTGCTCGCGGAACATCGATTCTGGGCCG
GCGTCTCTTCTTGGGACCTGAGGACTCTTCAGACCCACAGAGCACCAACCCAGACCTGGGCCCCGGCCACG
TGCGCATCAAAATCCGATGGACATTGACGTGGTACGAGGACCAATAAGATCAGGGACAGGTTTGGGACCCTG
GCCCAGCCGCGGACCCCTGACCGACCTGCGCTACGTGTGGGGCGGCTTCGTGTACCTGCAAGACCTGGTGGAGC
GTGCAGCCGTCCGCTGCTCAGCGGCGCAACCCCGGGCCGGCTCTACCTGCAGCAGATGCCCTATCCGTGCT
ATGTGGACGACGTGTTCTGCGTGTGCTGAGCCGGTCTGCTGCCCTCTTCTGACGCTGGCTGGATCTACTCCG
TGACACTGACAGTGAAGGCCGTGGTGCAGGAGAAGGAGACGCGCTGCGGGACACCATGCGCGCCATGGGGCTCA
GCCGCGGGTCTCTGGCTAGGCTGGTTTCTCAGCTGCCTCGGGCCCTTCTGCTCAGCGCCGCACTGCTGGTTC
TGGTGTCTAAGCTGGGAGACATCCTCCCTACAGCCACCCGGCGGTGGTCTTCTGTTCTTGGCAGCCTTCGCGG
TGGCCACGGTGACCCAGAGCTTCTGCTCAGCGCCTTCTTCTCCCGCGCCAACCTGGCTGCGGCTGCGGCGGCC
TGGCCTACTTCTCCCTCTACCTGCCCTACGTGCTGTGTGTGGCTTGGCGGGACCGGCTGCCCGCGGGTGGCCGCG
TGGCCGCGAGCTGCTGTGCGCCGTGGCCTTCGGCTTCGGCTGCGAGAGCCTGGCTCTGCTGGAGGAGCAGGGCG
AGGGCGCGCAGTGGCACAACGTGGGCACCCGGCTACGGCAGACGTCTTCAGCCTGGCCAGGTCTCTGGCCTTC
TGCTGCTGGACGCGGCGCTCTACGGCCTCGCCACCTGGTACCTGGAAGCTGTGTGCCAGGCCAGTACGGGATCC
CTGAACCATGGAATTTTCTTTTCGGAGGAGCTACTGGTGGGACCTCGGCCCCCAAGAGTCCAGCCCCTTGCC
CCACCCCGCTGGACCCAAAGGTGCTGGTAGAAGAGGCACCGCCCGGCTGAGTCTGGCGTCTCCGTTCGACGCC
TGGAGAAGCGCTTTCCTGGAAGCCCGCAGCCAGCCCTGCGGGGCTCAGCCTGGACTTCTACAGGGCCACATCA
CCGCTTCTGGGCCACAACGGGGCCGGCAAGACCACACCTGTCCATCTTGAGTGGCCTCTTCCACCCAGTG
GTGGCTCTGCCTTCATCCTGGGCCACGACGTCCGCTCCAGCATGGCCGCCATCCGGCCCCACCTGGGCGTCTGTC
CTCAGTACAACGTGCTGTTTACATGCTGACCGTGGACGAGCACGTCTGGTTCTATGGGCGGTGAAGGGTCTGA
GTGCCGCTGTAGTGGGCCCGAGCAGGACCGTCTGCTGCAGGATGTGGGGCTGGTCTCCAAGCAGAGTGTGCAGA
CTCGCCACCTCTCTGGTGGGATGCAACGGAAGCTGTCCGTGGCCATTGCCTTTGTGGGCGGCTCCCAAGTTGTTA
TCCTGGACGAGCCTACGGCTGGCGTGGATCCTGCTTCCCGCGCGGTATTTGGGAGCTGCTGCTCAAATACCGAG
AAGGTGCGACGCTGATCCTCTCCACCCACACCTGGATGAGGCAGAGCTGCTGGGAGACCGTGTGGCTGTGGTGG
CAGGTGGCCGCTTGTGCTGCTGTGGCTCCCACTCTTCTGCGCCGTCACCTGGGCTCCGGCTACTACCTGACGC
TGGTGAAGGCCCGCTGCCCTGACCACCAATGAGAAGGCTGACACTGACATGGAGGGCAGTGTGGACACCAGGC
AGGAAAAGAAGAATGGCAGCCAGGGCAGCAGAGTCGGCACTCCTCAGCTGCTGGCCCTGGTACAGCACTGGGTGC
CCGGGGCAGCGCTGGTGGAGGAGCTGCCACACGAGCTGGTGTGGTGTGCTGCCCTACACGGGTGCCCATGACGGCA
GCTTCGCCACACTCTTCCGAGAGCTAGACACGCGGCTGGCGGAGCTGAGGCTCACTGGCTACGGGATCTCCGACA
CCAGCCTCGAGGAGATCTTCTGAAGGTGGTGGAGGAGTGTGCTGCGGACACAGATATGGAGGATGGCAGCTGCG

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FIGURE 1297B

GGCAGCACCTATGCACAGGCATTGCTGGCCTAGACGTAACCCTGCGGCTCAAGATGCCGCCACAGGAGACAGCGC
TGGAGAACGGGGAACCAGCTGGGTGAGCCCCAGAGACTGACCAGGGCTCTGGGCCAGACGCCGTGGGCCGGGTAC
AGGGCTGGGCACTGACCCGCCAGCAGCTCCAGGCCCTGCTTCTCAAGCGCTTTCTGCTTGGCCGCCGAGCCGCC
GCGGCTGTTCGCCCAGATCGTGCTGCCCTCCTTTGTGGGCTGGCCCTCGTGTTACAGCTCATCGTGCCCTC
CTTTCGGGCACTACCCGGCTCTGCGGCTCAGTCCACCATGTACGGTGCTCAGGTGTCCTTCTCAGTGAGGACG
CCCCAGGGGACCCTGGACGTGCCCGGCTGCTCGAGGCGCTGCTGCAGGAGGCAGGACTGGAGGAGCCCCCAGTGC
AGCATAGCTCCACAGGTTCTCGGCACCAGAAGTTCTGCTGAAGTGGCCAAGGTCTTGGCCAGTGGCAACTGGA
CCCCAGAGTCTCCATCCCCAGCCTGCCAGTGTAGCCAGCCCGGTGCCCGGCGCTGCTGCCCGACTGCCCGGCTG
CAGCTGGTGGTCCCCCTCCGCCCCAGGCAGTGACCGGCTCTGGGGAAGTGGTTCAGAACCTGACAGGCCGGAACC
TGTCTGACTTCTGGTCAAGACCTACCCGCGCTGGTGCGCCAGGGCCTGAAGACTAAGAAGTGGGTGAATGAGG
TCAGGTACGAGGCTTCTCGCTGGGGGGCCGAGACCCAGGCCTGCCCTCGGGCCAAGAGTTGGGCCGCTCAGTGG
AGGAGTTGTGGGCGCTGCTGAGTCCCTGCTGGCGGGGCCCTCGACCGTGTCTGAAAAACCTCACAGCCTGGG
CTCACAGCCTGGACGCTCAGGACAGTCTCAAGATCTGGTTCAACAACAAAGGCTGGCACTCCATGGTGGCCTTTG
TCAACCGAGCCAGCAACGCAATCCTCCGTGCTCACTGCCCCAGGCCGGGGCCGCCACGCCCACAGCATACCA
CACTCAACCACCCCTTGAACCTACCAAGGAGCAGCTGTTTGAGGCTGCATTGATGGCCTCCTCGGTGGACGTCC
TCGTCTCCATCTGTGTGGTCTTTGCCATGTCTTTGTCCCGGCCAGCTTCACTCTGTCTCATTGAGGAGCGAG
TCACCCGAGCCAAGCACCTGCAGCTCATGGGGGGCTGTCCCCACCCTCTACTGGCTTGGCAACTTCTCTGGG
ACATGTGTAATACTTGGTGCCAGCATGCATCGTGGTGCTCATCTTCTGGCCTTCCAGCAGAGGGCATATGTGG
CCCCTGCCAACCTGCCTGCTCTCTGCTGTTGCTACTACTGTATGGCTGGTCGATCACACCGCTCATGTACCCAG
CCTCCTTCTTCTCTCCGTGCCAGCACAGCCTATGTGGTGCTCACCTGCATAAACCTCTTTATTGGCATCAATG
GAAGCATGGCCACCTTTGTGCTTGAGCTCTTCTCTGATCAGAAGCTGCAGGAGGTGAGCCGGATCTTGAACAGG
TCTTCTTATCTTCCCCACTTCTGCTTGGGCCGGGGGCTTATTGACATGGTGGGAACCAGGCCATGGCTGATG
CCTTTGAGCGCTTGGGAGACAGGCAGTTCAGTACCCCTGCGCTGGGAGGTGGTCGGCAAGAACCTCTTGGCCA
TGGTGATACAGGGGCCCTCTTCTTCTCTTACACTACTGCTGCAGCACCGAAGCCAACCTCCTGCCACAGCCCA
GGGTGAGGTCTCTGCCACTCCTGGGAGAGGAGGACGAGGATGTAGCCCGTGAACGGGAGCGGGTGGTCCAAGGAG
CCACCCAGGGGGATGTGTTGGTGCTGAGGAACCTGACCAAGGTATACCGTGGGCAGAGGATGCCAGCTGTTGACC
GCTTGTGCTTGGGATTCCCCCTGGTGAGTGTTTGGGCTGCTGGGTGTGAATGGAGCAGGGAAGACGTCCACGT
TTCGATGGTGACGGGGACACATTGGCCAGCAGGGGCGAGGCTGTGCTGGCAGGCCACAGCGTGGCCCGGGAAC
CCAGTGCTGCGCACCTCAGCATGGGATACTGCCCTCAATCCGATGCCATCTTTGAGCTGCTGACGGGCGCGAGC
ACCTGGAGCTGCTTGC CGCCTGCGCGGTGTCCCGAGGGCCAGGTTGCCAGACCGCTGGCTCGGGCCTGGCGC
GTCTGGGACTCTCATGGTACGCAGACCGGCCTGCAGGCACCTACAGCGGAGGGAACAAACGCAAGCTGGCGACGG
CCCTGGCGCTGGTTGGGGACCCAGCCGTGGTGTTTCTGGACGAGCCGACCACAGGCATGGACCCAGCGCGCGG
GCTTCCCTTTGGAACAGCCTTTTGGCCGTGGTGCGGGAGGGCCGTTCAGTGATGCTACCTCCCATAGCATGGAGG
AGTGTGAAGCGCTCTGCTCGCGCTAGCCATCATGGTGAATGGGCGGTTCCGCTGCCTGGGCAGCCCGCAACATC
TCAAGGGCAGATTGCGGGCGGGTCACACACTGACCCTGCGGGTGCCCGCGCAAGGTCCCAGCCGGCAGCGGCCT
TCGTGGCGGGCCAGTTCCTGGGTGCGGAGCTGCGCGAGGCACATGGAGGCGCCCTGCGCTTCCAGCTGCCGCGG
GAGGGCGCTGCGCCCTGGCGCGCTCTTTGGAGAGCTGGCGGTGCACGGCGCAGAGCACGGCGTGGAGGACTTTT
CCGTGAGCCAGACGATGCTGGAGGAGGTATTCTTGTACTTCTCCAAGGACCAGGGGAAGGACGAGGACACCGAAG
AGCAGAAGGAGGCAGGAGTGGGAGTGGACCCGCGCCAGGCCTGCAGCACCCCAACGCGTCAGCCAGTTCTCTG
ATGACCCTAGCACTGCCGAGACTGTGCTCTGAGCCTCCCTCCCTGCGGGGCGCGGGGAGGCCCTGGGAATGGC
AAGGGCAAGGTAGAGTGCTTAGGAGCCCTGGACTCAGGCTGGCAGAGGGGCTGGTGCCCTGGAGAAAATAAGAG
AAGGCTGGAGAGAAGCCGTGGTGGTGAAA

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FIGURE 1298

MAFWTQLMLLLWKNFMYRRRQPVQQLLVELLWPLFLFFILVAVRHSHPPELHHECHFPNKLPSAGTVPWLQGLIC
NVNNTCFPQLTPGEEPGRLSNFNDLSVSRLLADARTVLGGASAHRTLGLGKLIATLRAARSTAQPQPTKQSPLE
PPMLDVAELLTSLRTESLGLALGQAQEPHLSLLEAAEDLAQELLALRSIVELRALLQRPRGTSGPLELLSEALC
SVRGPSSSTVGPSSLNWYEASDLMELVGQEPESALPDSSSPACSELIGALDSHPLSRLLWRRLKPLILGKLLFAPD
TPFTRKLMQVNRTEELTLLRDVREVWEMLGPRIFTFMNDSSNVAMLQRLQLMQDEGRRQPRPGGRDHMEALRS
FLDPGSGGYSWQDAHADVGHLVGTGLGRVTECLSLDKLEAAPSEAAVSRALQLLAEHRFWAGVVFLGPEDSSDPT
EHPTPDLGPGHVRKIRMDIDVVRTNKIRDRFWDPGPAADPLTDLRYVWGGFVYLQDLVERAAVRVLSGANPRA
GLYLQQMPYPCYVDDVFLRVLSRSLPLFLTLAWIYSVTLTVKAVVREKETRLRDTMRAMGLSRAVLWLGWFLSCL
GPFLLSAALLVLVLKGLDILPYSHPGVVFLFLAAFAVATVTQSFLLSAFFSRANLAAACGGLAYFSLYLPYVLCV
AWRDRLPAGGRVAASLLSPVAFGFGCESLALLEEQGEGAQWHNVGTRPTADVFLAQVSGLLLLDAALYGLATWY
LEAVCPGQYGIPEPWNFPFRSYWCGPRPPKSPAPCPTPLDPKVLVEEAPPGLSPGVSVRSLKRFPGSPQPALR
GLSLDFYQGHITAFGLHNGAGKTTTSLISGLFPSPGGSFILGHVDRSSMAAIRPHLGVCPOYNVLFDMTLTVDE
HVWFYGRKGLSAAVVGPEQDRLLQDVGLVSKQSVQTRHLSGGMQRKLSVAIAFVGGSQVVILDEPTAGVDPASR
RGIWELLKYREGRTLILSTHHLDEAELLGDRVAVVAGGRGCCGSPFLRRHLGSGYYLTLVKARLPLTTNEKA
DTDMEGSVDTRQEKNGSQGSRVGTPQLLALVQHWVPGARLVEELPHELVLVLPYTGAHDGSFATLFRELDTRLA
ELRLTGYSISDTSLEEIFLKVVEECAADTMEDGSCGQHLCTGIAGLDVTLRLKMPPQETALENGEPAGSAPETD
QGSQPDVAVGRVQGWALTRQQLQALLKRFLARRSRGLFAQIVLPALFVGLALVFSLIVPFFGHYPALRLSPTM
YGAQVSFFSEDAPGDPGRARLLEALLQEAGLEPPVQHSSHRFSAPEVPAEVAKVLASGNWTPESPSPACQCSQP
GARLLPDCPAAAGGPPPPQAVTGSGEVVQNLTRNLSDFLVKTYPRLVROGLKTKKVVNEVRYGGFSLGGRDPG
LPSGQELGRSVEELWALLSPLPGGALDRVLKNTAWAHSIDAQDSLKIWFNNKGWHSMAFVNRAASNAILRAHLP
PGRARHAHSITTLNHPLNLTKEQLFEAALMASSVDVLVSI CVVFAMSFVPASFTLVLEERVTRAKHLQLMGGLS
PTLYWLGNFWDMCNYLVPACIVVLIFLAFQORAYVAPANLPALLLLLLLYGWSITPLMYPASFFFVSPSTAYVV
LTCINLFIGINGSMATFVLELFSQKLQEVSRILKQVFLIFPHFCLGRGLDMVRNQAMADAFERLGDQRQFSPL
RWEVVGKNLLAMVIQGPLFLFLFTLLQHRSQLLPQPRVRSPLLGEEDEDVARERERVVQATQGDVLVLRNLTK
VYRGQRMFAVDRLCLGIPPGECFGLLVNGAGKTSTFRMVTGDTLASRGEAVLAGHSVAREPSAAHLSMGYCPQS
DAIFELLTGREHLELLARLRGVPEAQVAQTAGSGLARLGLSWYADRPAGTYSGGNKRKLATALALVGDPVAVFLD
EPTTGMDPSARRFLWNSLLAVVREGRSVMLTSHSMEECEALCSRLAIMVN

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FIGURE 1299

GAGAGCTGGCTGCGCCGAGCCCCCTGCGCGCTGCACATCGGGCGCCTGACGGAAGCGGCGGCAGCGGGCAGCGGC
TCTCGGGCTGCAGGCTGGGCAGGGTCCCCCTCCCACGCTCCTGCCGCTGTCTCCACGTCCCCCAGGTGCGCGGCC
ACCATGGCGTCCAGCGACGAGGACGGCACCAACGGCGGCGCCTCGGAGGCCGGCGAGGACCGGGAGGCTCCCGGC
AAGCGGAGGCGCCTGGGGTTCTTGCCACCGCCTGGCTCACCTTCTACGACATCGCCATGACCGCGGGGTGGTTG
GTTCTAGCTATTGCCATGGTACGTTTTTATATGAAAAAGGAACACACAGAGGTTTATATAAAAGTATTCAGAAG
ACACTTAAATTTTTCCAGACATTGCTTGCTTGAGATAGTTCACGTGTTAATTGGAATTGTACCTACTTCTGTG
ATTGTGACTGGGGTCCAAGTGAGTTCAAGAATCTTTATGGTGTGGCTCATTACTCACAGTATAAAACCAATCCAG
AATGAAGAGAGTGTGGTGCTTTTTCTGGTCGCGTGGACTGTGACAGAGATCACTCGCTATTCCTTCTACACATTC
AGCCTTCTTGACCACTTGCCATACTTCATTAAATGGGCCAGATATAATTTTTTATCATCTTATATCCTGTGGA
GTTGCTGGTGAACCTTCTTACAATATACGCTGCCTTGCCGCATGTGAAGAAAACAGGAATGTTTTCAATAAGACTT
CCTAACAAATACAATGTCTCTTTTGACTACTATTATTTCTTCTTATAACCATGGCATCATATATACCTTTGTTT
CCACAACCTCTATTTTCATATGTTACGTCAAAGAAGAAAGGTGCTTCATGGAGAGGTGATTGTAGAAAAGGATGAT
TAAATGATCTCTGCAACAAGGTGCTTTTTCCAGAATAACCAAGATTACCTGAGTCCAAGTTTTAATAACAAGAA
TAAACAACCTTTGTGAAATATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1300

MGRLTEAAAAGSGSRAAGWAGSPPTLLPLSPTSPRCAATMASSDEDGTNGGASEAGEDREAPGKRRRLGFLATAW
LTFYDIAMTAGWLVLAIAMVRFYMEKGTHRGLYKSIQKTLKFFQTFALLEIVHCLIGIVPTSVIVTGVQVSSRIF
MVWLITHSIKPIQNEESVVLFLVAWTVTEITRYSFYTFSLDHLPHYFIKWARYNFFIILYPVGVAGELLTIYAAL
PHVKKTGMF SIRLPKNYNVSFDYYYFLITMASYIPLFPQLYFHMLRQRRKVLHGEVIVEKDD

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FIGURE 1301A

GGCGGCTCCGGCGCAGACCTTGGAGAGCACAGCTGCCGGCCCGCGAGCCAGCCTCGGTTCCCGCGGCCCGCCGAG
GCTCGGAGCCATCCAGCGACCCGGCGACCGGCCTCAGGCCCCGCCATGGGGAAGACCAACAGCAAGCTGGCCCCC
GAGGTGCTGGAGGACCTTGTTTCAGAACACTGAGTTCAGCGAGCAGGAGCTGAAGCAGTGGTACAAGGGCTTCCTG
AAGGACTGCCCCAGCGGCATCCTCAACCTGGAGGAGTTTTCAGCAGCTCTACATCAAGTTCTTCCCCTACGGCGAC
GCCTCCAAGTTTCGCGCAGCACGCTTTCCGCACCTTCGACAAGAACGGCGACGGCACCATCGACTTCCGGGAGTTC
ATCTGCGCCTGTGCGTCACCTCCCGCGGCAGCTTCGAGCAGAAGCTCAACTGGGCCTTTGAGATGTACGACCTG
GACGGCGACGGGCGAATCACGCGCTGGAGATGCTGGAGATCATCGAGGCAATCTACAAGATGGTGGGCACCGTG
ATCATGATGCGCATGAACCAGGACGGGCTCACGCCCCAGCAGCGTGTGGACAAGATCTTCAAGAAGATGGACCAG
GATAAGGACGACCAGATTACATTGGAGGAGTTCAAGGAGGCAGCCAAGAGTGACCCATCCATTGTGTGCTGCTG
CAGTGTGACATGCAGAAGTAGAAGCTGGTGAGGGGCAGGGTCCCTGGCCAGAAGGGGCATGGCCACCTCCCAACC
TGATGACCTCTCTGGCTGGCCTCCCAGGAGGAGGGACACTCCAGCCCCCTCTCTGGCCCCACCCAGTCTCTGCC
CAAGCCCTTCTCCCTCCATCAAGATCTTTGAGGGACCACTCACCTTGCAAAAGAGACAGGTCTCCAGTACC
CTGTCTTCTAGCCCCACCTCCCCTTGGCCAGAACCAATGTCCATTGGGCATAGGGGAGTTGGCTTTTGCCCCAG
GAGGTGAGGTTAAGGAGTTGGGGCCTGGGGTTCTGGTTAGGAATTCTCTTGATCTGGGATTATGCTTTATAGG
ATGTGGTCCACAGGCCTGTACAGGGCCAAATTGGGTCTGTCCATTCTGAGGCTCCAGATCCATAAAGGGGG
TCTCTTCCCATCCCTTCTACTCTACCTGGCCCTTCCAGCCCCAGCCTTTGGAGCGTTCATTAGTCCCTTCTTC
AGCTAATGATTACTGAGCACCTGTTTGGTGCTAAGGATATGGTCAATTTACAAGACACATCTTGTGCCCTCTGGAA
GCTCATAGGGTTGTGAGGCCAACTTCCAGCCGTGAGGGTCTCAGCTAAGCAGAAGGTGCTGGAAGGCTGGTTAGT
CTGGGAGGAGCTATTTCTCTTCCAGCTCAGCTCCACAAAGCTGCAGAAGGACGAAATGAAAAGCATTGGA
GTTTAGGAGCCACGTGAGTGAAGTTTAAAGAAAAATGAAATTTATGTCATACTTATTTTTTAGTACCCTTTAA
AGGAGCTACAGTCAATTTATTTTTCAGGAGGTTAAATATACTCTATATTACTTGGTTTATTATAAAATGATTA
AATGAATAGAGAAAATATTAATTTTCAAGGGGAAAAACCTGAGAAGAAAGGGAGAAAAGACCATGAAATTTACC
AGATAACACTTTTTAAGACTAAGTCTGAGCTGCCACTCTCAGCAGTTTTTGCTGCTTCAGCTCTTCCTTTTAT
TACCTTTTTCAATTCAACAAGCAACTTCTGCTACATACTTACTCCGGTTGGGTGCTGACTTCAGGGACAGGAAA
AAGCAAGGTTTGCAAAGAGTGAACTAGTGATATATCCGTATCTTGGTAGTTTCGTTTCTGGATTGGGTTTAGTTT
CAGAACTGGACTTGTTCCCTTCACTGCCACAGAATCAGAAAGAGCTAGAAGAAAAGGCTCACCTGGCCACTGTTTA
GGCACCAGACATAATTTATGGACGAAATGCCTAAAAATGTGCCAGGCATGCTCTGTTTGAGAGGCTTTTTCTAA
CCCCAAATCTTAGATCTGCCAGGTAGTTCAACATCTTCCAAGTGCTGGTTCTGCTTTCCAATGCCTGCTTCCC
AATTTTGGATCCATGAGCTATACAGCTGCATGCTTTGACTGCCGGAAAAATTAATCTTGCTTCTTCATCAGGTCT
TTCTCCTGTACTTGTGATCAGAAATTACCTTTGACGTGCAGTGACAGTTGATTTCCCTTGAAGTCCGGTGAAA
ACAGTCTAGTACACAGGTGCTGTGTCAGCCCAGGGTGGGAGCAGGAAATGATTGCTGAGCCCCGGGCAGGGGAATTG
CATCTGCAGGAAAGAGATGCAGCATGCTCCTCACTCCTGAGTGCCCACTGTCTGCTTCTCTGCAGGTGAAAAC
TCTGGGGGATGCTGATCAATAGAGCTTGGTCCCAAGCTCTACTGGGCCCTTGAGGTAGCAAGGCCACTGGGTTG
CTATCCTCTTGATGGGGATAGCAACCACTGGTTTGCAACCACTGGGTTGCTATCCTTTTGCTATCCTCTTGCTCA
TGACCAGCCATATGGTGAGGCTGGGGAGTTCACATCCTCAGGCAGGAAGTAGCAGTTGTTTATCCAGCAATGCCT
CAAGGATGTTGATTGCTCCAGGAGCTGGCTATTAGGTATGTCTTGTGCGGTGAGTGCAGCATCACAGACATA
GATGCTCACCAGCCTGGCTTAGCTGGGACCTAAATCTTCTGGTGAAAAGCTTTTCACTAAGTGAGGTTCTTCCC
TGCAATGCTGAATCTAGCCTAATTCGCAACCACACAGAAATTCATGGCTTTCAAAGGCTTGCCATGTGCCCAT
CTCATTCTATACTCACATCCCATGGAGGTGAGGATTTTCACTTCTTTTCTCTAGACTTGAAGCTGAGATTGAGA
GAGGAAGCATCCCTTGTGCAAGATCACATAGTCAGGAGGTGACACAGGGCTAAGACTTGAACCAAGGCTCTAAGA
GGATTTCTTCTTTTTCAGAGTCTCTTCCCTGTCCATTTCTGTGACTAAGCTGTGCAGAGGTGACAGCAGGGCAAG
TTACATTGATATTATCCTTTATAGGCTTCTGTCTAAAAAGCTTCTGAGATTGTGGTCTTCAAAAAAATAGGA
GCTTGGTTGAAGTCCCCACATTTTCAAGCACTCAGTGTCTGCTCTGGCAGCTGTGCTAACAGCTCAGTGCTGT
CCTGGGAGTCTCTGACTCAGAACCCTCGAAGCATCCTGCATTGTCTTTACCCACCATCATCGTCACTAAGAGAA
ACATGCCTACCCATGAAGGCGTGTGATTACTCCAGGCTTCTGGACACACATAACCATGGGTGATTTTTGCTCC
TCAGGCCCAATATTCTCAGACAGCCAGCAGTGTGAACACACAATGCCAGGCCAGGAAGTGGGACCACCATCTTG
CTGATGGAAGGAACAACAGGTGGCCAGGACATGCTCCTGCATACTCCTGGGTGTCCAGGGACTGTGTGCTCAG
GAGCACTGTGGTAGAGCACTGGCCCTGCCTTGAGAAGAGACACAGGTCTCCCGTCCCTGCACCAGCTGAGAGAGA

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FIGURE 1301B

CTTGCCACAAAGCACAAGGCTGGCAGAGATTTATGTATGACTTGCCACAGACACAAAAATATACAGACAATCAAAA
CATTGATATATTCAAACCTCTCCTTTAAATTCCAATCTTATTGCAACAACCTCTGTGAATTGCAAGGTCCCAGAATC
TGCCTTCTCACATACTCTACCCTCATTCACTCCTTTTGGGCTAATTGATGAGCATCTTATTTCTTATCTCTAAAAA
TTATCAGCAAAGGCTACTTCAGATGGCCACTTTAGTCCTTTTCAGCTGTAGTCAGGATTATTTAACTTACCTGTAT
ATCAAAAAGTGAAGAAAAAGTTAGTTCATAAGTAAAGGCACTAAATCCTTTCCTGACAATGGCAGAGTCTCTAGAG
GTAGAAAATTTGCCTTGCTGCAGAGAGAGAAGGAATGGCGTGGGATGGGGGAAAGAAAAGAGAAGAAGAGAA
GAAGCTGGGGTCTCCAGGCAGGGTAGTAAGCTGACACTAAATATTTTTTACACAAAAATGTATTGAAGCAACAAA
TATTTCTGAAGATCCACCCTGGGTGAGGCTTTGAGCTGACTTTAGAGATCACTGTGGGGTCAAGAATGTCTTAC
ATGTTTTATTTCATCATTCTTGAAAAAGAAATAATTCAAACCTTGGAATTAAAAAGTCAGAAAAACAAAAAAA
AAAAAAA

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FIGURE 1302

MGKTNSKLAPEVLEDLVQNTFSEQELKQWYKGLKDCPSGILNLEEFQQLYIKFFPYGDASKFAQHAFRTFDKN
GDGTIDFREFICALSVTSRGSFEQKLNWAFEMYDLGDGRITRLEMLEIIIEAIYKMVGTVIMMRMNQDGLTPQQR
VDKIFKKMDQDKDDQITLEEFKEAAKSDPSIVLLQLCDMQK

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FIGURE 1303

CAAAGGTCAGAGGTAAAGAAGTCATGGCGGCGCTGTGTCGGACCCGTGCTGTGGCTGCCGAGAGCCATTTTCTGC
GAGTGTTTCTCTTCTTCAGGCCCTTTTCGGGGTGTAGGCACTGAGAGTGGATCCGAAAGTGSTAGTTCCAATGCCA
AGGAGCCTAAGACGCGCGCAGGCGGTTTCGCGAGCGCGTTGGAGCGGCACTCGGAGCTTCTACAGAAGGTGGAGC
CCCTACAGAAGGGTTCTCCAAAAATGTGGAATCCTTTGCATCTATGCTGAGACATTCTCTCTTACACAGATGG
GACCTGCAAAGGATAAACTGGTCATTGGACGGATCTTTCATATTGTGGAGAATGATCTGTACATAGATTTTGGTG
GAAAGTTTCATTGTGTATGTAGAAGACCAGAAGTGGATGGAGAGAAATACCAGAAAGGAACCAGGGTCCGGTTGC
GGCTATTAGATCTTGAACTTACGTCTAGGTTCTGGGAGCAACAACAGATACAACGTACTAGAGGCTAATGCAG
TTCTCTTGGGAATCCAGGAGAGTAAAGACTCAAGATCGAAAGAAGACATCATGAAAAATGAATGAATTTGCTT
AGTGGATTGACTCCTTTGCTGAAGTCAGTTATTCATCAAGAATGCAATTAGACTAATTGTGAATAAATGATTGAA
TGAAGATATAATAAATAAAAGCTATAATTATAAAAAAAAAAAAAAAAAA

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FIGURE 1304

MAALCRTRAVAAESHFLRVFLFFRPFRGVGTESGSESGSSNAKEPKTRAGGFASALERHSELLQKVEPLQKGSFK
NVEFASMLRHSPLTQMGPADKLVIGRIFHIVENDLYIDFGGKFHCVCRREVDGEKYQKGRVRLRLDLELT
SRFLGATTDTTVLEANAVLLGIQESKDSRSKEEHHEK

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FIGURE 1305

CCCAAATATATATTTAATCTTGTGGTTCAAATAAGCTTTTGGCTCACATCTAAGCACATCATAAAGAACGCTGTA
GAAGAGGTGACATGATGAGGCGGGAAGACGAGGAAGAGGAGGGAACAATGATGAAGGCAAAGGGGACTTAGAGA
TGAAGGAGGAGGAAGAGATTAGTGAGACAGGAGAACTGGTTGGCCCTTTTGTGAGTGCTATGCCCACTCCAATGC
CCCACAACAAGGGCACCCGGTTCTCTGAGGCATGGGAATATTTCCACCTAGCTCCTGCTCGTGCTGGGCACCATC
CCAACCAAGTATGCCACCTGCCGCCTGTGTGGCAGGCAGGTGAGCCGTGGCCCTGGGGTCAACGTGGGCACCACTG
CACTGTGGAAGCATCTGAAAAGCATGCACAGAGAGGAGCTGGAGAAGAGTGGCCATGGTCAGGCTGGGCAGCGCC
AGGATCCAAGGCCCCACGGGCCCCAGCTCCCCACAGGCATTGAGGGTAACTGGGGTAGGCTCCTGGAGCAGGTGG
GCACCATGGCTTTGTGGGCCAGCCAAAGGGAAAAGGAGGTGCTTAGGAGGGAAAGGGCAGTGAATGGCGGGAGA
GGGCTGTGAAAAAAGGGAGCGAGCCCTGGAGGAGGTGAAAGGGCCATCCTGGAGATGAAGTGAAGGTGAGGG
CTGAGAAGGAGGCATGCCAGCGGGAGAAAGAGCTGCCTGCAGCAGTACATCCCTTCCATTTTGTTTAAATTGGGC
TTGGAGAATCTATTCTGAAAACATTGACTCTAGACTTGTAGAAAAGAGCCATTTTAGTTTCAACTCAAATGTAAA
GCAAAGTAGTTTGGTGACATTTTGCTTTTATGTGAAATAGTGACAGTATGAGTTAATCTGAGCAGGTCTGAATT
GACCAAATGCTTATCTACGAGGTTCTAGAGCTCTGCTGACCCTTGGCCGAAACTCTAAAATGTACCTATTAAAG
ATAAATGCTTCTACCAAAGTAAACTCTGTGAGTTGTTTCAGGGCAGAATGTACCAGCCAGTCAGCGTTGTTTTAA
CAAAATAATCAGATTTTGCCTAGCACTCGGTTTTGGTGGAGCTGACGATTTTGAGGGCTGAGGCTGGTTAGGTA
GCTGGAATGTGCCTATGTGACCAGCTCACTTGCAGACACCCTGCCGGAAGCAGAGCTTAATCTTCTAGGACTGA
GGTCTTAGCACATGTACTGGTGGAGTTTCAGACCACCAGTATGAATAAAAGCTTGTCTGTGTGACCCAGCAAG
TGAAGGACAAAGAACTGTGAGCCTCAGATCTTTGGACCTTTCCAATGCGTCTCTTCTCCTGTTATTGCTGCAA
TGTAATTTTCTTGCTTATATTAAAGTTGTTTCATCAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1306

MRREDEEEEGTMMKAKGDLEMKEEEEISETGELVGPFVSAMPTMPHNGTRFSEAWEIFHLAPARAGHHPNQYA
TCRLCGRQVSRGPGVNVGTALWKHLKSMHREELEKSGHGQAGQRQDPRPHGPQLPTGIEGNWGRLLLEQVGTMAL
WASQREKEVLRRERAVEWRERAVEKRERALEEVERAILEMKWKVRAEKEACQREKELPAAVHPFHV

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FIGURE 1307

CACATTCCAGAAAAAATACCGCTTTACAAAACTCGCTCCGCATGACCCACAGAACACCCAAGGTCAAAAAGAG
TCCAAAGTTCAGAAAGAAAAGTTATCTGAGTAGACTGATGCTCGCAAACAGGCCTCCGTTCTCTGCAGCGAAGAG
CCTCATAAATTCCCCTTCACAAGGGGCTTTTTTCATCCTTAGGAGACCTGAGTCTCAAGAAAACCCCTTTTCTGGA
AGTATCTGCTCCTTCAGAACATTTTATAGAAAACCTAATATAAAAGACACAACCTGCAAGAAATGCCTTGGAAGA
AAATGTTTTTATGGAACACTAACATGCCAGAAGTCACCATCTCTGAAAACACAACTACAATCATCTCCTGGA
GGCAGATTCCGCTGGGACTGCATTCAACTTAGGGCCAAGTGTAAACAACTGAGACAAAATGGGAATACAACAA
CGTGGGCACTGACCTGTCCCCGAGCCCAAGCTTCAATTACCCATTGCTCAGTTTGAAATTCAGCTAAGCCAG
CAGCTACAGTCCCTTATCCCCAACAAATGTGAGAAGGCTCATTCTCATGTTATCCGGACCTGAAGATGGAC
TGCTCTGGGGCCCATGTGCAAGTGACCTGTGCCAAGCTCATCTCCAGGACAGGCCACCTGATGAAGCTTCTCAGT
GGGCAGCAGGAAGTAAAGGCATCTGAGATAGAATGGGATACGGACCAATGGAAGACTGAGAACTACATTAATGAG
AGCACGGAAGCCAGAGTGAACAGAAAGAGAAGTCGCTTGAGCTCACAAAAGAAGTTCAGGATACGGCTATACT
GACAACTCATCTTGGCATTAAATTGTGACTGAAATACTAATGATTTTGATTATACTTTTCTGCCTCATTGTGGTT
TAGGATTGGGTGTGTGTGTCTCTCTGAATGGCACTCAAATGTTTGCTGACTCCTACTCTGCGTACTGGGGT
GTACAGCTATGGACTGATGCATCCCATCCCATCATCTTTCAGGAGCAAAGCAGTCTCTTTTTTGACAGCTGAAGA
AGAACCTGTAGGGAATCCAGAAGGAGCATTATGAAGGTGTTACAAGCCCGGAAGAATTACACAAGCACTGAGCT
GACTGTTGAGCCGGAGGAGCCCTCAGACAGCAGTGGCATCAACTGTGTCAGGCTTGGGAGTGAGCAGCTAGACAC
CAATGACGAGAGTGATGTTATCAGTGCACTAAGTTACATTTGCCATATTTCTCAGCAGTAAACCTAGATGTGGAA
TCAATGTTACTACCGTTCATTAACTGCCAACACAGGAAACAGCCTGGCAAAGATTCAAAGAGGTGGGAAGGCAG
CGGCAAAAAGTGAATAGAGTCTCATGGGCCAATGAGCATCCAGAAAAGGCACTTCAAAGAGGTGGGAAGGCAG
AGCATCAGGAGGGAACAGGGTGCCAGGCATCTGTGGAGAACGCTGCCGAAGAAAAAGGCTCGGGAGTCCAGCC
CCAAGGGAGCTGGAACAGCCTCACACACAGCAGGGGCCTGAGAAGTTAGCGGGAACGCCATCTACACCAAGCCT
TCGTTTCCAGCAAGAGCATAAGGCAGCAGTCTCTGTGCTGACACCTTCTCCAAGGGCGCGCCTTCTACCTCCAGC
CCTGCAAAAGCCCTACCACAGGTGAGAGACAGATTGAAAGACAACACACACTATTTCCATTTTAGAAAGTGCAAA
GGCTAGAGTTACAAATATGAAGGCTTCTAAACCAATTTACATTCCAG

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FIGURE 1308

MTHRTPKVKKSPKFRKKSYSRLMLANRPPFSAAKSLINSPSQGAFSSLGDLSPQENPFLEVSAPSEHFIETTNI
KDTTARNALEENVFMENTNMPEVTISENTNYNHPPEADSAGTAFNLGPTVKQTETKWEYNNVGTDLSPPEPKSFNY
PLLSLKFS

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FIGURE 1309

GGAAGCTCAGCAGTGTCCACTGTCGCCATTCTTGGCCATAGAAAACAATGTATTTGAATTTTGATGTAAGCATA
GCAAATTGAAGATGAAGATGACACGTTGATTTCTTGTTTGAAATTAACCAAGTCCCGAGAAAAGAAAGTGAATAG
TGTTAGCACGAGGAGGAAGGAAGAAATGGAGATTAGATTGGATACTCTTCTGCATCACTGGGTAGATCCAGCAC
TTTAAATGACTGCAACTTGGAAAGATAAATTAGCTTGGTATGAAGGTGAAGCTTACATGTGGCATCACTGGAAGCC
TTTTCTGAAAACCCCTCTCTGGACATGTCTTGATTTCCAAATAGCACAAAGTTGGACCCCTGGGACTACTGCTCCTC
TTGTATTGCGCCACACACGTCTCAAGTCTTCTGCTCAGATATGGATCTCTACATTTCATGGCGAAGCAGCAGTTT
TGGGAATTTTCGATCGTTTTCGGAATAATTCTTTATCAAACCAGATGATTCAACTGAGGCACATGAAGGAGATCC
CACAAATGGAAGTGGAGAACAAGTAAAACTTCAAATAATGGAGGCGGTTTGGGTAAAAAATGAGAGCTATTTTC
ATGGACAATGAAGAAAAAAGTGGGTAAAAAGTACATCAAAGCCCTTTCTGAGGAAAAGGATGAGGAAGATGGAGA
GAATGCCACCCATATAGAAACAGTGACCCTGTGATTGGGACCCACACAGAGAAGGTGTCCCTCAAAGCCAGTGA
CTCCATGGATAGTCTCTACAGTGGACAGAGCTCATCAAGTGGCATAACAAGCTGTTCAGATGGTACAAGTAACCG
GGACAGCTTTTCGACTGGATGACGATGGCCCTATTCCAGGACCATTCTGTGGCCGTGCCAGAGTGCATACGGATTT
CACGCCAAGTCCCTATGACACTGACTCCCTCAAATCAAGAAAGGAGACATCATAGACATTATTTGCAAAACACC
AATGGGGATGTGGACAGGAATGTTGAACAATAAAGTGGGAAACTTCAAATTCATTTATGTGGATGTCATCTCAGA
AGAGGAAGCAGCCCCAAGAAAATAAAGGCAAACCGAAGGAGTAACAGCAAAAAATCCAAGACTCTGCAGGAGTT
CCTAGAGAGGATTCTCTGCAGGAATACACCTCAACACTTTTGCTCAATGGTTATGAGACTCTAGAAGATTTAAA
AGATATAAAAGAGAGTCACTCATTGAATTAAATATTGAAAACCCAGATGACAGAAGAAGGTTACTATCAGCTGC
TGAAACTTCCTTGAAGAAGAAATTATTCAAGAGCAAGAAAATGAACCTGAGCCCCTATCCTTGAGCTCAGACAT
CTCCTTAAATAAGTCACAGTTAGATGACTGCCCAAGGGACTCTGGTTGCTATATCTCATCAGGAAATTCAGATAA
TGGCAAAGAGGATCTGGAGTCTGAAAATCTGTCTGACATGGTACATAAGATTATTATCAGAGCCAAGTGACTG
AACACGCATTCCCACTATATATCTACAGATGCATTCCATTTAACTCTTCTTGAGCTAAAACGTCAAATAGGAG
AGGAAGATAAGATAAATATTTGTAAATAAAACCTAAAGTTTAAATGTTTTAATCTGAATAATTGTACATAAAATT
TTGTATCTCTAACATTCCAAATTACTGTCAATAAAATATATATTTATTATTTTAAATGCTATGTGTTAATATTTT
ACTTGCTTGTATTAGAAAGGCAAAATGTAAGACTTTGGTATGTGTGACATATGCTTTATTTGGCTTTATTTTACA
AGTACAGTATCTGCAAAAAACAAAGTAACCTTTTTTCATACCTGCCAGTTTGAATTTATATATGTTATTGAACA
AATAGTAATAGAGGATTCGCTGTTGAAACAAGTTGTCCAAGCAATGTTATATTCATTTTTTACTTATTGGGAAA
GTGTGAGTTAATATTGGACACATTTTATCCTGATCCACAGTGGAGTTTTAGTAATTATATTTGTTGATTTCTTC
ATTTTGTCTTCTGGTATAAAAGTAGAGATAATGTGTAGTCACTTCTGATTAGTGAAACCAATTGTAATAATTGT
GGAAATGTTTTGTCTTTAAGTGTAATATTTTAAATTTGACATACCCTAATGTTAATAATAAAAAAGAACTATTT
GCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1310

MEIRLDTLSASLGRSSTLNDNCNLEDKLAWYEGEAYMWHHWKPFENPLWTCCLDFQIAQVGPWDYCSSCIRHTRLK
SSCSDMDLLHSWRSSSFGNFDRFRNNSLSKPDDSTEAEHGDPTNGSGEQSKTSNNGGGLGKKMRAISWTMKKKVG
KKYIKALSEEKDEEDGENAHYPYRNSDPVIGTHTEKVS LKASDSMDSLYSGQSSSSGITSCSDGTSNRDSFRLDDD
GPYSGPFCGRARVHTDFTPSPYD TDSL KIKKGD IIDIICKTPMGMWTGMLNNKVGNF KFIYVDVISEEEAAPKKI
KANRRSNSKSKTLQEFLERIH LQEY TSTLLNGYETLED LKDIKESH LIELNIENPDDRRRLLSAENFLEEEI
IQEQENEPEPLSLSSDISLNKSQLDDCPRDSGCISSGNSDNGKEDLESENLSDMVHKIIITEPSD

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FIGURE 1311

GGGGCAGACGTGGGACGGGAAGGACGGCTGCCGGGACTGGCGCGCGGGGACACTGGGCCGACGCGTGGAGTAGCG
GGGAGAGCGGGGAAGCCTGAGGGGGCGGGGCCGGCGCAGGCCGTGGGTGCGGCACGAGGATGCCGGCGCGGGAC
AGCGCCCGTAGGCAGCCCCACGGGCAGGGCGCGCGGGCGGGGCGGGCCGGGCCAGAGGAGCTCCCGGCAT
GTCGCAAGGGCTCCCGCCGCCGGCAGCGTCTGCAGAGGAGCGTCGCGGCGCCGGGAACCGCCGAGCCGCA
GCCGCAGCAGCAGAGCCCTGAGGATGATGACAGGAAGGTCCGAAGGAGAGAAAAAACCGAGTTGCTGCTCAGAG
AAGTCGGAAGAAGCAGACCCAGAAGGCTGACAAGCTCCATGAGGAATATGAGAGCCTGGAGCAAGAAAACACCAT
GCTGCGGAGAGAGATCGGGAAGCTGACAGAGGAGCTGAAGCACCTGACAGAGGCACTGAAGGAGCACGAGAAGAT
GTGCCCCGTGCTGCTCTGCCCTATGAACTTTGTGCCAGTGCTCCCGGCCGGACCCTGTGGCCGGCTGCTTGCC
CCGATGAAGCCGGGGACACTCCTCTGCCCAGCAAGGAGCCTTGGTCAATTTTCATACCTGGGAGGAAGGCTTTCC
TTCACAATTGTATACAGGGGGCACCTGTGGCCAGGCCTCCTCTGGGAGCTCCAGGACCAGCCAGCTGTGTTCCC
TGCAGACTGGGCTCAGCCCGACATCCAACAGGCGCCAACTCACAGAGCCCTTGTCAGATCCAGCATGGAGGCC
ACCCTCAGGAGTGACTTCTCATCCACCCTGGCAGCTAGTAGGTTCTGCTGTTATGCAGAGCCATTTCTCTAGAA
TTTGGATAATAAAGATGCTTATTGTCTCTCCCTTCTCCAGTTCTGGGAATTTACAGGCACAATACACTTCCTTTT
CCTGG

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FIGURE 1312

MSQGLPAAGSVLQRSVAAPGNQPQPQQQSPEDDDRKVRREKNRVAAQSRKKQTQKADKLHEEYESLEQENT
MLRREIGKLTEELKHLTEALKEHEKMCPLLLCPMNFVPVPPRPDPVAGCLPR

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FIGURE 1313

CACAAGGACATGGACGTGGACATCCTGGCCCTGGTCAATGACACCGTGGGGACCATGATGACCTGTGCCTATGAC
GACCCCTACTGCGAAGTTGGTGTTCATCATCGGAACCTGGCACCAATGCGTGTTACATGGAGGACATGAGCAACATT
GACCTGGTGGAGGGCGACGAGGGCAGGATGTGCATCAACACAGAGTGGGGGGCCTTCGGGGACGACGGGGCCCTG
GAGGACATTGCGACTGAGTTCGACAGGGAGCTGGACCTCGGCTCTCTCAACCCAGGAAAGCAACTGTTGAGAAG
ATGATCAGTGGCCTGTACCTGGGGGAGCTTGTGAGGCTTATCTTGCTGAAGATGGCCAAGGCTGGCCTCCTGTTT
GGTGGTGAGAAATCTTCAGCTCTCCACACTAAGGGCAAGATCGAAACACGGCACGTGGCTGCCATGGAGAAGTAA
AGAAGGCCTTGCTAATAACAAGAGAGATCCTGGTGGACCTGGGTCTGGAACCGTCTGAGGCTGACTGCATTGCCGT
CCAGCATGTCTGTACCATCGTCTCCTTCCGCTCGGCCAATCTCTGTGCAGCAGCTCTGGCGGCCATCCTGACACG
CCTCCGGGAGAAACAAGAAGGTGGAACGGCTCCGGACCACAGTGGGCATGGACGGCACCCCTCTACAAGATACACCC
TCAGTACCCAAAACGCCCTGCACAAGGTGGTGAGGAAACTGGTCCCAAGCTGTGATGTCCGCTTCTCCTGTGAGA
GAGTGGCAGCACCAAGGGGGCCGCCATGGTGACCGCGGTGGCCTCCCGCGTGCAGGCCCAGCGGAAGCAGATCGA
CAGGGTGTCTGGCTTTGTTCCAGCTGACCCGAGAGCAGCTCGTGGACGTGCAGGCCAAGATGCGGGCTGAGCTGGA
GTATGGGCTGAAGAAGAAGAGCCACGGGCTGGCCACGGTCAGGATGCTGCCACCTACGTCTGCGGGCTGCCGGA
CGGCACAGAGAAAGGAAAGTTTCTCGCCCTGGATCTTGGGGGAACCAACTCCGGGTCCTCCTGGTGAAGATCAG
AAGTGGACGGAGGTGAGTGCGAATGTACAACAAGATCTTCGCCATCCCCCTGGAGATCATGCAGGGCACTGGTGA
GGAGCTCTTTGATCACATTGTGTCAGTGCATCGCCGACTTCTGGACTACATGGGCCTCAAGGGAGCCTCCCTACC
TTTGGGCTTCACATTCTCATTTCCTGTCAGGCAGATGAGCATTGACAAGGGAACACTCATAGGGTGGACCAAGG
TTTCAAGGCCACTGACTGTGAAGGGGAGGACGTGGTGGACATGCTCAGGGAAGCCATCAAGAGGAGAAACGAGTT
TGACCTGGACATTGTTGCAGTCGTGAATGATACAGTGGGGACCATGATGACCTGTGGCTATGAAGATCCTAATTG
TGAGATTGGCCTGATTGCAGGAACAGGCAGCAACATGTGCTACATGGAGGACATGAGGAACATCGAGATGGTGGGA
GGGGGGTGAAGGGAAGATGTGCATCTGTTTTTCATTTTGCCTGTGGTTTGTGTTGCAGGTGTTGATAGTTGTTTT
AAGGATTGTTAGGTATAGGAAATCCAGTAAATTAATAAAAAAATTTTGATTTTCCAATAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 1314

MDGTLYKIHQPYPKRLHKVVRKLVPSCDVRFLLESSESGSTKGAAMVTAVASRVQAQRKQIDRVLALFQLTREQLVD
VQAKMRAELEYGLKKKSHGLATVRMLPTYVCGLPDGTEKGKFLALDLGGTNFRVLLVKIRSGRRSVRMYNKFIFAI
PLEIMQGTGEELFDHIVQCIADFLDYMGLKGASPLGFTFSFPCRQMSIDKGTLLIGWTKGFKATDCEGEDVVDML
REAIKRRNEFDLDIVAVVNDTVGTMTCGYEDPNCEIGLIAGTGSNMCYMEDMRNIEMVEGEGKMCICFSFCLW
FVLQVLIVLRIVRYRKSSKLIKKE

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FIGURE 1315

ACGCGGGGATTCTGTGTAATTCCTATCCACAGTCACTTCTGTTTCATTTTAAATGAAAACCTATTGCTGTTATTTT
CTATTATGAGTTAACGGTGATGTGTGTTTTTTAAATTTTGTATACTTGCTCTCACCCCTAAAATATACCTTAAGAG
ACTTTTCCCCTGTTTTTCTTTCTGCTTTCCAAGACTCCAGGAAAAACAGCTTCCAATGCGACATTTTGTACAGGGC
ACATCTAGAATGATTGCCGCAGAAAGTTCTACGGAGCATAAAGAGTGTGCTGAACCATCAACAAGAAAGAACTTG
ATGAATTCCTTTGAACAAAAGATAAGGTGTTTGGAAAAACAAAGAAAAGAGCTCCTGGAAGTTAACCAGCAATGG
GATCAGCAATTTAGAAGTATGAAAGAGTTATATGAAAGAAAGGTAGCAGAGCTGAAGACGAAACTGGACGCCGCG
GAAAGATTCCTCAGCACGCGGGAGAAGGATCCGCATCAGAGGCAGAGAAAGGACGACAGGCAGAGAGAGGACGAC
AGGCAGCGCGACCTGACCCGGGACCGGCTGCAGCGGGAGGAGAAGGAAAAGGAACGCCTAAATGAAGAATTACAT
GAATTGAAAGAAGAGAATAAACTTTTAAAGGGAAAAAATACTCTTGCGAACAAGGAAAAGGAACATTACGAATGT
GAAATAAAACGCCTCAATAAGGCTCTTCAGGATGCCTTGAATATCAAGTGTTCATTTTCCGAGGACTGTTTGAGG
AAGTCTCGAGTGGAATTTGCCATGAGGAGATGAGAACAGAAATGGAAGTTCTGAAGCAGCAGGTGCAAATATAC
GAAGAAGACTTCAAAAAGGAACGATCGGATCGAGAGAGACTTAATCAAGAGAAAGAGGAGCTACAGCAAATTAAT
GAACTTCCCAATCCCAGTTGAACAGGCTGAATTTCCAGATAAAAGCTTGTGAGATGGAGAAAGAAAACTAGAA
AAGCAATTAAACAGATGTATTGCCACCCCTGTAAGTGCAGGCTTGTTTTCCACCTGCAAGATCCATGGGTACCA
ACAGGCCCTGGAGCTGTGCAGAAGCAACGGGAGCACCCACCAGACTGTCAGTGGTATGCTCTTGACCAGCTTCCG
CCAGATGTACAACACAAGGCAAAATGTTTTATCCTCAGTAAAGAAAGTCCATCCGTAGAGTACACACTAACAGAG
AGAGACAACAGGCAACGAGGAGCGTGGCTGAGGACCCTCTTCTTTGTTTATACTGAGGCTTGTTTCTGCCACAA
AGGCACATCATCTACCCTGTTATTTGTGCCGTGGTATGTTTTCTTTGGTATGAATACAGGAAAAGGCTTCTGAC
AGCTAAGATCCTGATCAAATTGGAGGAGCCAGTTATTATACAACCAAATACAACCTCCAGTTTCTTGAATGAG
ACTTGGCAGATGGATGATGCACGACTCCCTGAAAATCTCTTCAGCATATTGCTGTTGGATGCACAAAATGATTC
TATGATTTAGGCAACTCAGTGTTTGCTGCAGGGATATTGTATGTTGATTTAAAGTGCATATGTGTGTGTGTGT
GTGTGTGTGTGTGTGTTTCTGGGGTAAAAATTTCTGCAGTTGTAAACGTTTAAACATTGCTCCCATTTCTTCTCC
ACAGGGCCTTAGTTCTTTAGCTATTTGACTACATATTGTTGACCTCAGTGATCCTAAACGTAGAATTGAAGAGGT
GTATATACCTCGTTAAATTAAATAAGTGGTTCAATCTGAATAAGATGGTTAATTGGAAGCTATTCTTACAGAGA
TCATTTCTTTAAGATGGTGAGAAATTGTGCGCCTGCATCACAAGACTTGATTATGAAAGATAAAGTCTTGGGCTG
GGTGCAGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCTGAGGCAGGTGGATTGCTTTGAGGCCAGGAGTT
CTAGACCAGCCTGGCCAGCATGGTGAAACCCCATCTCTACTATAAATACAAAAATTAGCCAGGCTCGTGGCACAC
ACCTATAAACCCAGCTACTCAGGAGGCTTGAGGCGGGAGGATCACTTGAGCCCAGGGAGGCAGAGGTTGCTGTAA
GTTGAGATCGCCACTGCACTCCAGCCTGGGAAATAGAGTGAGCAAGACTCAGTGCCCCCTACCCACCCACTCCAC
ACCACCAAAAAAAAAAAAAAAAAAAAAAGGAAGACAAAGTCCTGATGGGATGATGATGGCTATATGGCTATGCTG
TGTCATATATACTTACAGAAATATTTAGACATATGGATTTATAGTTAAATCTGTGTTTTTCTTCTATGGAT
TTGATTAATTTTAAATGAAAACTTAATTCTGACTCCTCAAGCCAATTAATGAAAATGGAATTTATTTAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1316

MAHFVQGTSRMIAAESSTEHECAEPSTRKNLMNSLEQKIRCLEKQRKELLEVNQQWDQQFRSMKELYERKVAEL
KTKLDAAERFLSTREKDPHQQRKDDRQREDDRQORDLTRDRLQREEKEKERLNEELHELKEENKLLKGKNTLANK
EKEHYECEIKRLNKALQDALNIKCSFSEDCLRKSVEFCHEEMRTEMEVLKQQVQIYEEDFKKERSDRERLNQEK
EELQQINETSQSQLNRLNSQIKACQMEKEKLEKQLKQMYCPPCNCGLVFHLQDPWVPTGPGAVQKQREHPPDCQW
YALDQLPPDVQHKANGLSSVKKVHP

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FIGURE 1317

CGGCCCCGCTGGAGAGGAAGCCCGAGAGCTGCCGCGCGCCTGCCGGACGAGGGCGTAGAAGCCAGGCGTCAGAGCC
CGGGCTCCGGTGGGGTCCCCACCCGGCCCTCGGGTCCCCGCCCCCTGCTCCCTGCCCATCCAGCCACGCGA
CCCTCTCGCGCGGGAGGGGCGGGTCTCGACGGCTACGGGAAGGTGCCAGCCCGCCCCGGATGGGCATCGTGGA
GCCGGGTGCGGAGACATGCTGACGGGCACCGAGCCGATGCCGGGGAGCGACGAGGGCCGGGCGCCTGGCGCCGA
CCCGCAGCACCGCTACTTCTACCCGGAGCCGGGCGCGCAGGACGCGGACGAGCGTCGCGGGGGCGGCAGCCTGGG
GTCTCCCTACCCGGGGGCGCCTTGGTGCCCGCCCCGCGGAGCCGCTTCCCTGGAGCCTACGCCTACCCGCCGCG
ACCCAGCGCGCCGGCTTCCCCGGCGCGGGCGAGTCTTCCCGCGCCCGCGGACGCCGAGGGCTACCAGCCGGG
CGAGGGGTACGCCGCCCGGACCCGCGCGCGGGGCTCTACCCGGGGCCGCGTGAGGACTACGCGCTACCCGCCGG
ACTGGAGGTGTGCGGGAACTGAGGGTTCGCGCTCAACAACCACTGTTGTGGTCCAAGTTTAAATCAGCACCAGAC
AGAGATGATCATCACCAAGCAGGGACGGCGGATGTTCCATTCTGTCTTTACTGTGGCCGGGCTGGAGCCAC
CAGCCACTACAGGATGTTTGTGGACGTGGTCTTGGTGGACCAGCACCCTGGCGGTACCAGAGCGGCAAGTGGGT
GCAGTGTGAAAGGCCGAGGGCAGCATGCCAGGAAACCGCTGTACGTCCACCCGGACTCCCCAACACAGGAGC
GCACTGGATGCGCCAGGAAGTTTCATTTGGGAACTAAAGCTCACAACAACAAGGGGGCGTCCAACAATGTGAC
CCAGATGATTGTGCTCCAGTCCCTCCATAAGTACCAGCCCCGGCTGCATATCGTTGAGGTGAACGACGGAGAGCC
AGAGGCAGCCTGCAACGCTTCCAACACGCATATCTTTACTTTCCAAGAAACCCAGTTTATTGCCGTGACTGCCTA
CCAGAATGCCGAGATTACTCAGCTGAAAATTGATAATAACCCCTTTGCCAAAGGATTCCGGGAGAATTTGAGTC
CATGTACACATCTGTTGACACCAGCATCCCTCCCGCCTGGACCCAATGTCAATTCCTTGGGGGAGATCACTA
CTCTCTCTCCTACCCAACCAAGTATCTGTTCAGCGCTTCTACCCCGACCTTCTGGCCAGGCGAAGGATGT
GGTTCCCCAGGCTTACTGGCTGGGGGCCCCCGGGACCACAGCTATGAGGCTGAGTTTCGAGCAGTCAGCATGAA
GCCTGCATTCTTGCCCTCTGCCCCTGGGCCCCACCATGTCCTACTACCGAGGCCAGGAGTCTTGGCACCTGGAGC
TGGCTGGCCTGTGGCACCCCACTACCTCCCAAGATGGGCCCGGCCAGCTGGTTCCGCCCTATGCGGACTCTGCC
CATGGAACCCGGCCCTGGAGGCTCAGAGGGACGGGGACCAGAGGACCAGGGTCCCCCTTGGTGTGGACTGAGAT
TGCCCCCATCCGGCCGGAATCCAGTGATTGAGGACTGGGCGAAGGAGACTCTAAGAGGAGGCGCGTGTCCCCCTA
TCCTTCCAGTGGTGACAGCTCCTCCCTGCTGGGGCCCCCTTCTCCTTTTGATAAGGAAGCTGAAGGACAGTTTTA
TAACTATTTTCCCAACTGAGCAGATGACATGATGAAAGGAACAGAAACAGTGTATTAGGTTGGAGGACACCGAC
TAATTTGGGAAACGGATGAAGGACTGAGAAGGCCCCGCTCCCTCTGGCCCTTCTCTGTTTAGTAGTTGGTTGGG
GAAGTGGGGCTCAAGAAGGATTTTGGGGTTACACAGATGCTTCTGGCCACGATGAAACCTGAGAGGGGTGTCC
CCTTGCCCCATCCTCTGCCCTAACTACAGTCGTTTACCTGGTGTGCGTCTTGCTTTTGGTTTCCAGCTGGAGAA
AAGAAGACAAGAAAGTCTTGGGCATGAAGGAGCTTTTGCATCTAGTGGGTGGGAGGGGTGAGGTGTGGGACATG
GGAGCAGGAGACTCCACTTTCTCCTTTGTACAGTAACTTTCAACCTTTTCGTTGGCATGTGTGTTAATCCCTGA
TCCAAAAGAAACAAATACACGTATGTTATAACCATCAGCCCGCCAGGGTCAGGGAAAGGACTACCTGACTTTGG
ACAGCTGGCCTGGGCTCCCCCTGCTCAAACACAGTGGGGATCAGAGAAAAGGGGCTGGAAAGGGGGGAATGGCCC
ACATCTCAAGAAGCAAGATATGTTTGTGGTGGTGTGTGTGGGTGTGTGTTTTTCTTTTTCTTTTCTTTTAT
TTTTTTGAATGGGGGAGGCTATTATTGTAAGTGTGAGAGTGGTGTCTGGATATATTCCTTTTGTCTTCATCATTTC
TGAAAATAAACATAAACTGTTAAAAA

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FIGURE 1318

MGIVEPGCGDMLTGTEPMFGSDEGRAPGADPQHRYFYYPEPGAQDADERRGGGSLGSPYPGGALVPAPP SRFLGAY
AYPPRPQAAGFPGAGESFPPPADAEGYQPGEGYAAPDPRAGLYPGPREDYALPAGLEVSGKLRVALNNHLLWSKF
NQHQTEMIITKQGRMFPLSFTVAGLEPTSHYRMFVDVVLVDQHHWRYQSGKWVQCGKAEGSMFGNRLYVHPDS
PNTGAHWMRQEVSFGLKLTNNKGASNNVTQMIVLQSLHKYQPR LHIVEVNDGEPEAACNASNTHIFTFQETQFI
AVTAYQNAEITQLKIDNNPFAKGFRENFESMYTSVDTSIPSPGPNQCFLGGDHYSPLLPNQYPVPSRFYPDLP
QAKDVVPQAYWLGAPRDHSYEAFFRAVSMKPAFLPSAPGPTMSYYRGQEV LAPGAGWPVAPQYPPKMGPASWFRP
MRTLPMEPGPGGSEGRGPEDQGPPLVWTEIAPIRPESSDSGLGEGDSKRRRVSPYPSSGDSSSPAGAPSPFDKEA
EGQFYNYFPN

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FIGURE 1319

ACCGTCTTCCGCCGCACGTGGATTGAGCGCGATGCCCAAATCCAAGCGCGACAAGAAAGTCTCCTTAACCAAAAC
TGCCAAGAAAGCCTTGGAATTGAAACAAAACCTGATAGAAGAGCTTCGGAAATGTGTGGACACCTACAAGTACCT
TTTCATCTTCTCTGTGGCCAACATGAGGAACAGCAAGCTGAAGGACATCCGGAACGCCTGGAAGCACAGCCGGAT
GTTCTTTGGCAAAAACAAGGTGATGATGGTGGCCTTGGGTGCGAGCCCATCTGATGAATACAAAGACAACCTGCA
CCAGGTGAGCAAAAGGTTGAGGGGTGAGGTGGGTCTCCTGTTACCAACCGCACAAAGGAAGAGGTGAATGAGTG
GTTACGAAATACACAGAAATGGACTACGCCCAGCTGGTAACAAAGCAGCTTTCAGTGTGAGCCTGGATCCAGG
GCCCCTGGAGCAGTTCCCCCACTCCATGGAGCCACAGCTCAGGCAGCTGGGCCTGCCACCGCCCTCAAGAGAGG
TGTGGTGACTCTGCTGTCTGACTACGAGGTGTGCAAGGAGGGCGATGTGCTGACCCAGAGCAGGCTCGCGTCCT
GAAGCTTTTTTGGGTATGAGATGGCTGAATTCAAGGTGACCATCAAATACATGTGGGATTACAGTCGGGAAGGTT
CCAGCAGATGGGAGACGACTTGCCAGAGAGCGCATCTGAGTCCACAGAAGAGTCAGACTCAGAAGATGATGACTG
AAAGGGACTCGGGACTGAAGGTCTCCTGGAAGCTTCTGGGTCTCACTGGACCATCAGGACTGCTGCCGCCCTCT
GGAGAGAGCAGCTTTTTTATTTGTCTGTAGACAGGGAACATGATGGGCACTGACCTCCTGTAAAGAATAAACTGT
GGGCCGGGCGCGGTGGCTCACGCCTGGAATCCCAGCACTTTGGGAAGCCGAGGTGGGCAGATCATAAGGTGAGGA
GATTAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATAGAAAAAAAAAACTAGTTGGGCATAG
TGGCATGTGCCTGTAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGTGGAGGTTG
CCGTGAGTTGAGATTGGACCACTGCTCTCCAGCCTGGGCAACAGAGTAAACTCTGTCCC

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FIGURE 1320

MPKSKRDKKVSLTKTAKKGLELKQNLIEELRKCVDITYKYLFIFSVANMRNSKLKDIRNAWKHSRMFFGKNKVMV
ALGRSPSDEYKDNLHQVSKRLRGEVGLLFTNRTKEEVNEWFTKYTEM DYARAGNKAFTVSLDPGPLEQFPHSME
PQLRQLGLPTALKRGVVTLLSDYEVCKEGDVLTP EQARVLKLF GYEMAEFKVTIKYMWDSQSGRFQMGDDL PES
ASESTEESEDSEDD

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FIGURE 1321A

GGGTCGAGGTCGACGGTATCGATAAGTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCTTCCCTCCCCCTCCCTC
TCCAAGCCGGAGGGGTCTGAGGTGACAGCGCCTGCAACTGAAATTCAGCAGCGGGAGAAGATCGACAAGAGAA
AGCTCGGGCGACGGCCATCTTCATCCGAAATCATCACAGAAGGAAAAAGGAAAAAGTCATCTTCTGATTATCGG
AGATAAGAAAGATGTTAAATGCAAAACCAGAGGATGTCCATGTTCAATCACCCTGTCCAAATTCAGAAGCTCAG
AACGCTGGACTCTCCCTTTGCAGTGGGAAAGAAGCCTAAGGAATAAAGTCATCTCTAGACCATAAAAAATAAA
AACATATCCGAGGGTGTCTGTACTTCCAGGTATCACCAGAAAGGATACCCAGAGTTATATTGACGAATGTCC
TGGGAACGGAGTTAGGAAGAAAATACATAAGGACCCACCTGTAAGTGAAGGAAGTTGAGTGATACAGACAAC
TGCAATCAGAGCAACTTTCTTCATCATCTGATGGCAGCCTAGAATCTTATCAAAATCTAAACCCTCACAAGAGCT
GTTATTTATCTGAAAGGGGCTCACAACGAAGTAAGACAGTAGATGACAATCTGCAAGCAGACTGCGCACATA
AAGAAAAACGAAGAAAGGATGATGGCATTCTCTTTTAAATATCTGATACTCAGCCTGAAGACCTTAACAGTGGA
GTAGAGGTTGTGATCATCTCGAACAGGAAAGCAGAAACAAGGATGTTAAATATTCTGATTCAAAAGTGGAAC
CTCTGATTTCCAGGAAGACAAAGAGAAGGCTTAGAAATAATTTACCTGATTCTCAATATTGTAATCTTTGGATA
AGTCAACAGAACAGACAAAAAAACAAGAAGATGACTCAACAATATCCACTGAGTTTGAAAGGCCAAGTGAAA
ATCATCAGGATCCAAAACCTGCCTGAAGAAATTACAATAAACCTACAAAAAGTGATTTTACTAAGCTATCCTC
TTAACAGTCAGGAGTTGACTTTGAGTAATGCCACCAAAAGTGCTCTGCCGTTCAACCACTGAAACCGTTGAGT
ACTCTAATTCATTGATATTGTGGGGATTCTTCCCTGGTTGAGAAGGATGAGAATGAGTTGAATACCATAGAAA
AGCCTATTCTAAGAGGACATAATGAAGGGAACCAATCAGTATCTCAGCTGAACCAATTGTGTTTCCAGTGATG
AAGAAGGACCTGTTGAACATAAAAGTTCAGAAATTCTTAAGTTACAATCTAAGCAAGACCGTGAGACAAC
AAAATGAGAGTACTTCTGAATCAGCATTGTAGAATACTGATTACATGTGAATCTGTACAGATGTCATCTG
AATTATGCCCATATAATCCTGTCTATGGAGAACATTTCCAGTATTATGCCTAGTAATGAGATGGATCTACA
ATTTTATATTACTTCTGTTTATATTGGTAAAATAAAGGAGCTTCTAAAGGTTGTGTTACAATCACA
ATATTAAGATCCCATTTCAAGTGTCCTGAATGAGATTTTATTGCTAGTGGATACCACACATTTAAAGCGGTTG
GGTTATGGAAAAGTAAGGATGATAATCACAGTAAAGGAGTCATGCTATTCTTTCTTCTGGGCTCTTTCAGATT
ATCTTCAAGAGATTCAGACCCAATTAGAACACTCTGTATTAAGCCAGCAATCAAAATCTAGTGAATTCATTTCC
TTGAACATACAAATCCTGTTTACAGAGAGAAGAATTGAAGCTGAAAGATATTATGACGGAATAAGTATAATCA
GTGGAGAATTAGAGCTTTCTTACCCGTTGTCTTGGGTTCCAGCAATTTCTTTGTTTCAGAACCTCTCTTCA
AAAGTTCTTTTATTATTACTGTGTTTCAACTTGTCTTTCCCTGCTGGTGTGCTGTTGCTGAAGAAATGA
AGCTGAAATCAGTATCTCAGCCCTCAAACACAGATGCGGCCAAGCCTACTTACACCTTCTGCAGAAAGCA
GCGGTTGCTACTCCCTTTCTATTACATCTAATCCAGATGAAGAATGGCGGGAAGTCAGGCACACTGGACTGTTC
AGAAGTTGATTGTATATCCTCCACCACCTACTAAGGGGGGATTGGGAGTAACCTAATGAAGATCTGGAGTGT
AAGAAGGAGAGTTTCTTAATGATGTAATCATTGATTTTTACCTTAAGTATCTTATATTGGAGAAGGCATCAGATG
AACTTGTGTAACGAAGTCACATTTTTAGTAGCTTTTTCTATAAATGCTTGACAAGAAAGGAAAAATAATTAACAG
AAGATAATCCAAATCTTTCAATGGCACAGAGAAGACATAAAAGAGTAAGAACATGGACTCGTCACATAAACATTT
TTAATAAAGATTACATCTTTGTACCTGTAAATGAGTCGTCTCACTGGTATCTCGCAGTCATTTGTTTTCCATGGT
TAGAAGAAGCTGTGTATGAAGATTTCCACAACTGTATCCCAGCAGTCCCAGGCTCAGCAGTCCCAAAGTGACA
ACAAAACAATAGATAATGATCTACGTACTACTTCGACACTGTCTTTGAGTGCAGAGGATTTCCAAAGTACCGAGT
CGAATATGTCTAGTACCAAAGAAAATGTGTAAGGCCATGTATTCTTATACTAGACTCCTTGAAAGCTGCTTCTG
TACGAAACACAGTTCAGAATTTACGAGAGTATTTAGAGGTAGAGTGGGAAGTTAACTAAAACTCATCGTCAAT
TCAGCAAAACAAACATGGTGGATCTATGCCCTAAAGTTCCTAAACAGGACAATAGCAGTGATTGTGGAGTATATT
TATTGCAGTATGTGGAAAGCTTCTTCAAGGATCCTATTGTTAACTTTGAACCTTCAATTCATTGGAGAAGTGGT
TTCCCTCGTCATGTAATAAAGACCAACGGGAAGATATTCGAGAGCTCATCTTGAACTTCATTACAGCAACAGA
AGGGCAGCAGTAGCTAGTTAATCTGTACAAACATGACACAGATGTCTCTAAGATTACTGGAAAGCCCCCTTACCA
GCATTTGTGTTAGCCAGCTCACAGAGAAGAAAATAACTTGCAAGTAGTTTTATAATAAGTCATTGGAACATTATTT
AAAATATGTAGGACACATTATTAGAATTGTTGGGATCTCATAGATGGAATGGGAATGGGGGTGATATAGATAAAC
TTACTAGATATAAATTAATAATTTTATAAATTTTATATTTTCTGAGTAAATATGATTGGATTATGCAACAGCA
TATGTAATATGGGAATGTTTTGTAGATAATAAACTTACATGATCTGTACTTCCACGTGACTGGGTGCTGAGGGG
AGTTAAAGCCTCCCTGGTGCCAGCCCCAGTGCTTGTCAAATTTGCTGACAGGTCACATCATATTGTAATCTATT
CTTTGCGAGCTCAAGCATGCAGTATGAATACTGTGATTTTTTAAAAAATAATTTAGTATCAAGGCTTCAGAAAA

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FIGURE 1321B

TGCCATTTACGGCATCCCTTCTGTATGTAACAAAAAGACATTTCATAATGTTAGGAAGATGATAAAAATTCGCTCT
TTTAAAGTGCAGCTTATTATTCTCAATTGCTAAATACGATTACTCTGCTTTTTTTTTTTCATTCTTTTGATGTC
ATAATGTGAGTATCTTATAATTTAGTTCATTTGTTTCAAGGGTAAAAATTTGAAACAAAAAATTTTACCTGTGCAAAAT
AGTTTTTTAAAAATTATACATGTAGCTCAACTTGAGGTACTGCTATATAAATATTCCTCACATTATCACGGAAT
TTAIGTATAGTTTCTCTAATATAGAAGATAAAAATTGGTGTCTCATAACTTTAACAAGAAAAACCTCAGTCCTA
TTTATTAATGGGTAGAATTAAATATATAATTTTATAGCTCAGTTTACCCAGTATTCATCTGCAAAGCCAGATTGC
TCTCATTCCTTTTATATTTTAAATTGTAGCTTTTAGAGACCTATGATCCTCATGGAACCTTAATTTTTTATTAAA
TATTCAGGTAACAGTTCTGAATTCATGTGATAATGGTGGCATTATATATGATTAAACACTTCAGAACCTTCTAAT
GTTATCAGGAGTATTTTGAGGGAGATATGATTATATTGTATTTTCTCAGATAAGAAAAATGTTTTTAAACAATAT
TATTTTAATCTGTTTTAAGCATCTCTTAGATTTACATTATAACTACATAAAGCAGTGAAGCAAAGGCAAATTAAG
ATAAAGCTAGAAAGTCTGAACATTTTATTTCAAAATCATACGAATCGGGGTCAGTTAAGCCTCAGTATTCTTAGC
TTTTGTTGATTTTGGCACTATCTTTATATTATTAATATATTTGTGTTTGGATATTTATATAAAGATGGCTAT
AATTACATATTTTATTCCCAATTTGTGTGTGTTGGGGGTACTTTTAAAGGTGACTATTGTTTTGTACATCTAAT
TTTGGGAACCAAGTCTATAAGACATCTTGTGATTTCTTAATGTTTTGTTTGTATGTTTTTCAAAGATATCACT
GTCCTTTTATCATGTTTTGAAGATTGTTTAAATTCATTTTCTAAATTAATGTGCAAGTAATGTTTGAGGATAT
CGGTGTTTTATATTAAACATATTTCCAATTCAAAAAAAAAAAAAAAAAACTTATCGATACCGTCGACCTCGATG
ATGATGATGATGATGATGATGTCGAC

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FIGURE 1322

MDKRKLGRRPSSSEIITEGKRKKSSDLSEIRKMLNAKPEDVHVQSPLSKFRSSERWTLPLQWERSLRNKVISLD
HKNKKHIRGCPVTSRSSPERIPRVILT NVLGT ELGRKYIRTPPVTEGSLSDTDNLQSEQLSSSSDGSLESYQNLN
PHKSCYLSEGRSQRSKTVDDNSAKQTAHNKEKRRKDDGISLLISDTQPEDLNSGSRGCDHLEQESRNKDVKYSDS
KVELTLISRKT RRLRNLPDSQYCTSLDKSTEQT KQEDDSTISTEFERPSENYHQDPKLPEEITTKPTKSDFT
KLSSLNSQELT LSNATKSASAGSTTETVEYSNSIDIVGISSLVEKDENELNTIEKPILRGHNEGNQSLISAEPV
VSSDEEGPVEHKSSEILKLQSKQDRETTNENESTSESALLEPLITCESVQMSSELCPYNPVMENISSIMPSNEM
DLQLDFIFTSVYIGKIKGASKGCVTITKKYIKIPFQVSLNEISLLVDTTHLKRFGWLKSKDDNHSKRSHAILFFW
VSSDYLQEIQTQLEHSVLSQQSKSSEFIFLELHNPVSQREELKLDIMTEISIISGELELSYPLSWVQAFPLFQN
LSSKESSFIHYCVSTCSFPAGVAVAEEMKLKSVSQPSNTDAKPTYTFLQKQSSGCYSLSITSNPDEEWREVRH
TGLVQKLIVYPPPTKGGLGVTNEDLECEEGEFLNDVIIDFYLYLILEKASDELVERSHIFSSFFYKCLTRKE
NNLTEDNPNLSMAQRRHKRVRTWTRHINIFNKDYIFVPVNESSHWYLAVICFPWLEEAVYEDFPQTVSQSQAAQ
SQSDNKTIDNDLRTTSTLSLSAEDSQSTESNMSVPKKMCKRPCILILDSLKAASVRNTVQNLREYLEVEWEVKLK
THRQFSKTNMVDLCPKVPKQDNSSDCGVYLLQYVESFFKDPIVNFELPIHLEKWFP RHVIKTKREDIRELILKLH
LQQQKGSSS

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FIGURE 1323

GGGGACTTCCGGAGACCTCACACAAGATGGCGGCACCCGAGGAACACGATTCTCCGACCGAAGCGTCCCAGCCGA
TTGTGGAAGAGGAGGAAACTAAAAACATTTAAAGACCTGGGTGTGACAGATGTGTTGTGTGAAGCTTGTGACCAGT
TGGGATGGACAAAACCCACCAAGATTGAGATTGAAGCTATTCCCTTTGGCCTTACAAGGTCGTGATATCATTGGGC
TTGCAGAACTGGCTCTGGAAAGACAGGCGCCTTTGCTTTGCCATTCTAAACGCACTGCTGGAGACCCCGCAGC
GTTTGTGTTGCCCTAGTTCTTACCCCGACTCGGGAGCTGGCCTTTGAGATCTCAGAGCAGTTTGAAGCCCTGGGGT
CCTCTATTGGAGTGCAGAGTGTGTGATTGTAGGTGGAATTGATTCAATGTCTCAATCTTTGGCCCTTGCAAAAA
AACCACATATAATAATAGCAACTCCTGGTCGACTGATTGACCACTTGGAATAACGAAAGGTTTCAACTTGAGAG
CTCTCAAATACTTGGTCATGGATGAAGCCGACCGAATACTGAATATGGATTTTGAAGACAGAGGTTGACAAGATCC
TCAAAGTGATTCTCGAGATCGGAAAACATTCTCTCTGCCCACCATGACCAAGAAGGTTCAAAAACTTCAGC
GAGCAGCTCTGAAGAATCCTGTGAAATGTGCCGTTTCTCTAAATACAGACAGTTGAAAAATTACAGCAATATT
ATATTTTTATTCCCTCTAAATTCAAGGATACCTACCTGGTTTATATTCTAAATGAATTGGCTGGAAACTCCTTTA
TGATATTCTGCAGCACCTGTAATAATACCCAGAGAACAGCTTTGCTACTGCGAAATCTTGGCTTCACTGCCATCC
CCCTCCATGGACAAATGAGTCAGAGTAAGCGCCTAGGATCCCTTAATAAGTTTAAAGCCAAGGCCCGTTCCATTC
TTCTAGCAACTGACGTTGCCAGCCGAGGTTTGGACATACCTCATGTAGATGTGGTTGTCAACTTTGACATTCTTA
CCCATTTCAAGGATTACATCCATCGAGTAGGTGGAACAGCTAGAGCTGGGCGCTCCGGAAGGCTATTACTTTTG
TCACACAGTATGATGTGGAACCTTCCAGCGCATAGAACACTTAATTGGGAAGAACTACCAGGTTTCCAACAC
AGGATGATGAGGTTATGATGCTGACAGAACGCGTCGCTGAAGCCCAAAGGTTTGGCCGAATGGAGTTAAGGGAGC
ATGGAGAAAAGAAGAAACGCTCGCGAGAGGATGCTGGAGATAATGATGACACAGAGGGTGCTATTGGTGTGAGGA
ACAAGGTGGCTGGAGGAAAAATGAAGAAGCGGAAAGGCCGTTAATCACTTTTATGAAGGCTCGAGTTCTGCTGTT
CTGTAAAAGAAAATTGGAGAATGAAACCTGCTCCAACAGAGATCATGAGACTGAAATTGGTCAGAAATTGTGTCCA
GAATGTGCTCAGCTAATTCAGTATTCTTCCCATTTCTGGGTTGGAGTTTACTGCAGAGTAATTCTTACAGTGCTG
ATGTCAAGACTGTTACTGTTCTTCGACTTTGATTCTTGTCTCATGACATGAGTAGGGTGTGCTCTTCTGTCACTT
CACACAGACCTTTTGGCTTTTTTAGCTGCAAGTCAAGGACTAGGTTGATGATGCCCATGACCTGTAATTGTAAAG
AAGCTTGACATCTGCAAATGATATTTAAACCATCTTGGCTTGTGCTTTATTCAAACATAATGTGAAACAATAAAT
TTAAATATTATTTTAAAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1324

MAAPEEHDSPTASQPIVEEEEETKTFKDLGVTDVLCEACDQLGWTKPTKIQIEAIPALQGRDIIGLAETGSGKT
GAFALPILNALLETPQRLFALVLTPTRELAFOISEQFEALGSSIGVQSAVIVGGIDSMSQSLALAKKPHIIIATP
GRLIDHLENTKGFNLRAKYLVMDEADRILNMDFETEVDKILKVIPRDRKTFLFSATMTKKVQKLQRAALKNPVK
CAVSSKYQTVEKLQYYYIFIPSKFKDTYLVYILNELAGNSFMIFCSTCNNTQRTALLRLNLGFTAIPLHGQMSQS
KRLGSLNKF KAKARSILLATDVASRGLDIPHVDVVVNF D I P T H S K D Y I H R V G R T A R A G R S G K A I T F V T Q Y D V E L F
QRIEHLIGKKLPGFPTQDDEVMM L T E R V A E A Q R F A R M E L R E H G E K K K R S R E D A G D N D D T E G A I G V R N K V A G G K M K
KRKGR

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FIGURE 1325

GGCACGAGGGCCAGGAACGCCAGCCGTTACGCGTTTCGGTCTCTCTTGGCTGACTCACCGCCCTCGCCGCCGCAC
CATGGACGCCCCAGGCAGGTGGTCAACTTTGGGCCTGGTCCCGCCAAGCTGCCGCACTCAGTGTGTAGAGAT
ACAAAAGGAATTATTAGACTACAAAGGAGTTGGCATTAGTGTCTTGAATGAGTCACAGGTCATCAGATTTTGC
CAAGATTATTAACAATACAGAGAATCTTGTGCGGGAATTGCTAGCTGTTCCAGACAACATAAGGTGATTTTTCT
GCAAGGAGGTGGGTGCGGCCAGTTTCAGTGTCTGTCCTTAAACCTCATTGGCTTGAAAGCAGGAAGGTGTGCGGA
CTATGTGTGACAGGAGCTTGGTCAGCTAAGGCCGAGAAGAAGCCAAGAAGTTTGGGACTATAAATATCGTTCA
CCCTAAACTTGGGAGTTATACAAAAATTCCAGATCCAAGCACCTGGAACCTCAACCCAGATGCCTCCTACGTGTA
TTATTGCGCAATGAGACGGTGCATGGTGTGGAGTTTGACTTTATACCCGATGTCAAGGGAGCAGTACTGTTTTG
TGACATGTCTCAAACCTTCTGTCCAAGCCAGTGGATGTTTCCAAGTTTGGTGTGATTTTTGCTGGTGCCAGAA
GAATGTTGCTCTGCTGGGGTCACCGTGGTGATTGTCCGTGATGACCTGCTGGGGTTTGCCCTCCGAGAGTGCCC
CTCGGTCTCGGAATACAAGGTGCAGGCTGGAACAGCTCCTTGTACAACACGCTCCATGTTTCAGCATCTACGT
CATGGGCTTGGTTCTGGAGTGGATTAAAAACAATGGAGGTGCCGCGGCCATGGAGAAGCTTAGCTCCATCAAATC
TCAAACAATTTATGAGATTATTGATAATTCTCAAGGATTCTACGTTTGTCCAGTGGAGCCCCAAAATAGAAGCAA
GATGAATATTCCATTCCGCATTGGCAATGCCAAAGGAGATGATGCTTTAGAAAAAGATTTCTTGATAAAGCTCT
TGAACCTCAATATGTTGTCCTTGAAGGGCATAGGTCTGTGGGAGGCATCCGGGCCTCTCTGTATAATGCTGTCAC
AATTGAAGACGTTCAGAAGCTGGCCGCCTTCATGAAAAAATTTTGGAGATGCATCAGCTATTGAACACATCCTAA
CCAGGATATACTCTGTTCTTGAACAACATACAAAGTTTAAAGTAACTTGGGGATGGCTACAAAAAGTTAACACAG
TATTTTTCTCAAATGAACATGTTTATTGCAGATTCTTCTTTTTTGAAGAACAACAGCAAAACATCCACAACCTCT
GTAAAGCTGGTGGGACCTAATGTCACCTTAATTCTGACTTGAACCTGGAAGCATTTTAAGAAATCTGTTGCTTTT
CTAACAAATTCGCGTATTTTGCCTTTGCTGCTACTTTTTCTAGTTAGATTTCAAACCTTGCCTGTGGACTTAAT
AATGCAAGTTGCGATTAATTATTCTGGAGTCATGGGAACACACAGCACAGAGGTAGGGGGCCCTCTAGGTGC
TGAATCTACACATCTGTGGGGTCTCTGGGTTTCAGCGGCTGTTGATTCAAGGTCAACATTGACCATGGAGGAGT
GGTTTAAGAGTGCCAGGCCAAGGGCAAACCTGTAGATCGATCTTTATGCTGTTATTACAGGAGAAGTGACATACTT
TATATATGTTTATATTAGCAAGGTCTGTTTTTAATACCATATACTTTATATTTCTATACATTTATATTTCTAATA
ATACAGTTATCACTGATATATGTAGACACTTTTAGAATTTATTAAATCCTTGACCTGTGCATTATAGCATTCCA
TTAGCAAGAGTTGTACCCCTCCCGAGTCTTCGCTTCTCTTTTAAAGCTGTTTTATGAAAAAGACCTAGAAGT
TCTTGATTCATTTTACCATTCTTTCCATAGGTAGAAGAGAAAGTTGATTGGTTGGTTGTTTTCAATTATGCCA
TTAAACTAAACATTTCTGTTAAATTACCCTATCCTTTGTTCTCTACTGTTTTCTTTGTAATGTATGACTACGAGA
GTGATACTTTGCTGAAAAGTCTTTCCCTATTGTTTATCTATTGTCAGTATTTTATGTTGAATATGTAAAGAACA
TTAAAGTCCTAAACATCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1326

MDAPRQVVNFGPGPAKLPHSVLLEIQKELLDYKGVGISVLEMSHRSSDFAKIINNNTENLVRELLAVPDNYKVIFL
QGGGCGQFSAVPLNLIGLKAGRCADYVVTGAWSAKAAEEAKKFGTINIVHPKLGSYTKIPDPSTWNLNPDASYVY
YCANETVHGVEFDFIPDVKGAVLVCDMSSNFLSKPVDVSKFGVIFAGAQKNVGSAGVTVVIVRDDLLGFALRECP
SVLEYKVQAGNSSLYNTPPCFISIYVMGLVLEWIKNNGAAAMEKLSSIKSQTIYEIIDNSQGFYVCPVEPQNRSK
MNIPFRIGNAKGDDALEKRFLDKALELNMLSLKGHRVGGIRASLYNAVTTIEDVQKLAAFMKKFLEMHQL

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FIGURE 1327

CTAAAGTGGAGCCCAGCGGCGGGTGTGAGAGTCCGTAAGGAGCAGCTTCCAGGATCCTGAGATCCGGAGCAGCCG
GGGTCCGAGCGGCTCCTCAAGAGTTACTGATCTATGAAATGSCAGAGAATGGAAAAAATGTGACCAGAGACGTG
TAGCAATGAACAAGGAACATCATAATGGAAATTTACAGACCCCTCTTCAGTGAATGAAAAGAAGAGGGGAGC
GGGAAGAAAGGCAGAATATTGTCCTGTGGAGACAGCCGCTCATTACCTTGCAGTATTTTTCTCTGGAAATCCTTG
TAATCTTGAAGGAATGGACCTCAAATTATGGCATCGTCAAAGCATTGTGGTGTCTTTTTTACTGCTGCTTGTCTG
TGCTTATAGCTACGTATTATGTTGAAGGAGTGCATCAACAGTATGTGCAACGTATAGAGAAACAGTTTCTTTTGT
ATGCCACTAGGATAGGCTTAGGAATTTTGTCTTCTGTTGGGCTTGAACAGGGCTGCACACCTTTCTGCTTTATC
TGGGTCCACATATAGCCTCAGTTACATTAGCTGCTTATGAATGCAATTCAGTTAATTTTCCGAACACCCTTATC
CTGATCAGATTATTTGTCCAGATGAAGAGGGCACTGAAGGAACCATTCTTTGTGGAGTATCATCTCAAAGTTA
GGATTGAAGCCTGCATGTGGGGTATCGGTACAGCAATCGGAGAGCTGCCTCCATATTTTCATGGCCAGAGCAGCTC
GCCTCTCAGGTGCTGAACCAGATGATGAAGAGTATCAGGAATTTGAAGAGATGCTGGAACATGCAGAGTCTGCAC
AAGACTTTGCCTCCCGGGCCAACTGGCAGTTCAAAAAGTAGTACAGAAAGTTGGATTTTTTGAATTTTGGCCT
GTGCTTCAATTCCAAATCCTTTATTTGATCTGGCTGGAATAACGTGTGGACACTTTCTGGTACCTTTTTTGGACCT
TCTTTGGTGCAACCCTAATTGGAAAAGCAATAATAAAAATGCATATCCAGAAAATTTTTGTTATAATAACATTCA
GCAAGCACATAGTGGAGCAAATGGTGGCTTTTCATTGGTGTCTGTCCCGGCATAGGTCCATCTCTGCAGAAGCCAT
TTCAGGAGTACCTGGAGGCTCAACGGCAGAAGCTTCACCACAAAAGCGAAATGGGCACACCACAGGGAGAAAAGT
GGTTGTCTGGATGTTTGAAGGTTGGTCTGTGTCATGGTGTGTTACTTTCATCTATCTATCATTAACCTCATGG
CACAAAGTTATGCCAAACGAATCCAGCAGCGGTTGAACTCAGAGGAGAAAAGTAAATAGTAGAGAAAAGTTTTAA
ACTGCAGAAATTGGAGTGGATGGGTTCTGCCTTAAATTTGGGAGGACTCCAAGCCGGGAAGGAAAATTCCTTTTTC
CAACCTGTATCAATTTTTTACAACTTTTTCTGAAAGCAGTTTAGTCCATACTTGCAGTACATACTTTTTTCCT
TCTGTGCTAAGGTAAGGTATCCACCCTCGATGCAATCCACCTTGTGTTTTCTTAGGGTGAATGTGATGTTTCAGC
AGCAAACCTGCAACAGACTGGCCTTCTGTTTGTACTTTCAAAGGCCACATGATACAATTAGAGAATTCCCAC
CGCACAAAAAAGTTCTTAAGTATGTTAAATATGTCAAGCTTTTTTAGGCTTGTCAAAATGATTGCTTTGTTTTT
CTAAGTCATCAAAATGTATATAAATTATCTAGATTGGATAACAGTCTTGCATGTTATCATGTTACAATTTAATA
TTCCATCCTGCCCAACCCTTCTCTCCCATCCTCAAAAAAGGGCCATTTTATGATGCATTGCACACCCCTCTGGGG
AAATTGATCTTTAAATTTTGAAGACAGTATAAGGAAAATCTGGTTGGTGTCTTACAAGTGAGCTGACACCATTTTT
TATTCTGTGATTTAGAAATGAAGTCTTGAAAAAAGCTTTTATAAAGACATCTTTAATCATTCCAAAATTGTGTCCG
TTTTCTTGAGCGTTTTGATTTTTTACTTTTAGCTTATACCAGCTGAATGGCAGCCTTGCCATATCCACCTACAAC
AAGAAATTTCTTAAGCTTTCTTTTATTTGCATGAGAGAGCCACTACCAAGGCATGTTTTGTTATGCTGAAACTGGG
CTGCTGCATACGCTAAATGGCACCTCTGGGATTGGCCTACCTGGGGATTTCTTGGTTTGTGAAAACAGGAGAGG
AGAAATATCTCATACAAGTGAAAGGATACTGGAGAGAGAAATTACCCATTTCTAAAAAAAACCACACTCTGTCTG
TATCTGTGTTAAATGTTTTCTAGCATGTACTCTGGTTTCAACAGACACAAATTTATATGTTAACCCAGTTTTCTTG
CCGTTCTGTAAGTGTTTTATTCTTAGTGTGATTTTTTCCATTGGGATGTTTTTGAATTGAACTTGTTCAATTTGT
TTTGCTTGGGAGGAAAATAACAATTTTACTTTTTTCTTAAAAAAGGAAAAA

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FIGURE 1328

MAENGKNCQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIWLWRQPLITLQYFSLEILVILKEWTSKLWHR
QSIIVVSFLLLLAVLIATYYVEGVHQQYVQRIEKQFLLYAYWIGLGILSSVGLGTGLHTFLLYLGPFIASVTLAAY
ECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIISKVRIEACMWGIGTAIGELPPYFMARAARLSGAEPDDEEYQ
EFEEMLEHAESAQDFASRAKLAVQKLQKVGFFGILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIK
MHIQKIFVIITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHKSEMGTPOGENWLSWMFEKLVVVM
VCYFILSIINSMAQSYAKRIQQRLNSEEKTK

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FIGURE 1329

CTGTGAGTGACACACGCTGAGTGGGGTGAAGGGAAATGCTGGTGAATTCATTTGAGGTGTGGGTGCTGTAG
TCACTCTGTCTCTTGCCATTGCCAAGCACAAAGCAATCTTCCTTCACCAAAAGTTGTTACCCAAGGGGAACATTGT
CCCAAGCTGTTGACGCTCTCTATATCAAAGCAGCATGGCTCAAAGCAACGATTCCAGAAGACCGCATAAAAAATA
TACGATTATTAAGAAAGAAAACAAAAAGCAGTTTATGAAAACTGTCAATTTCAAGAACAGCTTCTGTCCTTCT
TCATGGAAGACGTTTTTGGTCAACTGCAATTGCAAGGCTGCAAGAAAATACGCTTTGTGGAGGACTTTCATAGCC
TTAGGCAGAAATTGAGCCACTGTATTTCCCTGTGCTTCATCAGCTAGAGAGATGAAATCCATTACCAGGATGAAAA
GAATATTTTATAGGATTGGAAACAAAGGAATCTACAAAGCCATCAGTGAAGTGGATATTCTTCTTCTGATTG
AAAAATTATTGGAAAGCAGTCAGTAAACCAAAGCCAAGTACATTGATTTTACAGTTATTTGAAATACAATAAGA
ACTGCTAGAAATATGTTTATAACAGTCTATTTCTTTTAAAACTTTTTAACATAATACTGACGGCATGTTAGGTG
ATTCAGAATAGACAAGAAGGATTTAGTAAATTAACGTTTTGGATATAAGTTGTCATAATTTGCACATTTTCTGT
GTTTTCAAATAATGTTTCCATTCTGAACATGTTTGTCAATCACAAGTACATTGTGTCACTTAATTTAAAGTAT
GTAACCTGAATTAACCTCGTGAATATTTGTGTGTGGAGTGGGATGTGGGGGTGGAGGGGGAATGACAGATTTCT
GGAATGCAATGTAATGTTACTGAGACTTAAATAGATGTTATGTATATGATTGTCTGTTAAGTGTGTTGAAAATTG
TTAATTATGCCAGTGTGAACTTAGTACTTAAACACATTTTGATTTTAATTAAATAAATTGGGTTTCCTTCTC

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FIGURE 1330

MLVNFILRCGLLLVTLSLAIAKHKQSSFTKSCYPRGTLSQAVDALYIKAAWLKATIPEDRIKNIRLLKKKTKKQF
MKNCQFQEQLLSFFMEDVFGQLQLQGCKKIRFVEDFHSRLRQKLSHCISCASSAREMKSITRMKRIFYRIGNKGIY
KAISELDILLSWIKKLLESSQ

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FIGURE 1331

TGCACAAGCAGAATCTTCAGAACAGGTTCTCCTTCCCCAGTCACCAGTTGCTCGAGTTAGAATTGTCTGCAATGG
CCGCCCTGCAGAAATCTGTGAGCTCTTTCCTTATGGGGACCCTGGCCACCAGCTGCCTCCTTCTCTTGGCCCTCT
TGGTACAGGGAGGAGCAGCTGCGCCCATCAGCTCCCACTGCAGGCTTGACAAGTCCAACCTCCAGCAGCCCTATA
TCACCAACCGCACCTTCATGCTGGCTAAGGAGGCTAGCTTGGCTGATAACAACACAGACGTTCTGCTCATTGGGG
AGAAACTGTTCCACGGAGTCAGTATGAGTGAGCGCTGCTATCTGATGAAGCAGGTGCTGAACTTCACCCTTGAAG
AAGTGCTGTTCCCTCAATCTGATAGGTTCCAGCCTTATATGCAGGAGGTGGTGGCCCTTCCTGGCCAGGCTCAGCA
ACAGGCTAAGCACATGTCATATTGAAGGTGATGACCTGCATATCCAGAGGAATGTGCAAAAGCTGAAGGACACAG
TGAAAAAGCTTGGAGAGAGTGGAGAGATCAAAGCAATTGGAGAACTGGATTGCTGTTTATGTCTCTGAGAAATG
CCTGCATTGACCAGAGCAAAGCTGAAAAATGAATAACTAACCCCTTTCCCTGCTAGAAATAACAATTAGATGC
CCCAAAGCGATTTTT

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FIGURE 1332

MAALQKSVSSFLMGTILATSCLLLLALLVQGGAAAPISSHCRLDKSNFQQPYITNRTFMLAKEASLADNNTDVRLI
GEKLFHGVSMSERCYLMKQVLNFTLEEVLPQSDRFQPYMQEVVPFLARLSNRLSTCHIEGDDLHIQRNVQKLKD
TVKKLGESGEIKAIGELDLLFMSLRNACI

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FIGURE 1333

TTTACTTCCTGCGTCCCCGGACGCCGTATGTGGAAAGGCGAACCCCTGAGTGGAGGATGTTCCCGCTGCCTAAAGA
ATGATTGACTGTGACTGCACTTTTGTGAGATTATAAATATACCACGGAGGGTAACGAAGCTACAGAAGAATGGAA
GAAGACAGCCTGGAAGACTCAAACCTTTTCCAAAAGTTTGGCATTCTGAGATGACGGTGTGAGCGACAGGCGAA
CCACCTAGTGCCGTCGAAGAAGAAGGAATACCTAACGAAACAGACATAGAAATCATGCCAGAAATCCCGGAAACT
CTAGAGCCACTGTCCCTTCCAGATGTGCTGAGGATCTCGGCAGTTCTGGAGGACACCACAGACCAGCTCTTTATT
CTGAACTACATCATGCCCGTTCAGTACGATGGGAGACAGAGCATCTGCGTGAAAAGCAGAGAATTGAATCTAGAA
GGAACGAATCTAGACAAACTTGCAATGGGCCTCAACATGACAAAATACTCAGTCCGTTACTACCTGTGGAAGGA
CCCAATTTGCCTGATTTACACCCAGAGGCCGTTTCGCTGTGGAGTTTAAACAAAATGCAGGATCTTGTCTTCAA
AAACCTACAAGGCAGACCATCATGACTACGGAGACACTGAAGAAAATTCACATTGATAGGCAGTTTTTCAGCGAT
GTGATTGCAGATACCATTAAAGGAGTTGCAAGATTCGGCCACTTACAACAGTCTCCTGCAAGCTTTGAGCAAAGAG
AGGGAAAACAAAATGCATTTCTATGACATCATTGCCAGGGAGGAAAAAGGAAGAAAACAGATAATATCACTTCAA
AAACAGCTAATTAATGTCAAAAAGGAATGGCAATTTGAAGTCCAGAGTCAGAAATGAGTATATTGCTAACCTCAAG
GACCAACTGCAAGAGATGAAGGCAAAATCCAACCTGGAGAATCGCTACATGAAAACCAATACCGAGCTGCAGATT
GCCCAGACCCAGAAAAAGTGTAACAGAACAGAGGAACTCTTGGTGGAAGATTTTGAGAAACTCAGGATGAAAACC
GAAGAAGAGGGCCCGACTCATAACAGAGATTGAAATGTTTCCTTAGAAAGGAGCAGCAGAAACTTGAGGAGAGGCTG
GAGTTCGTGATGGAGAAATACGATAAGGACACAGAAATGAAACAGAATGAACTAAATGCTCTCAAGCCACAAAG
GCCAGTGTCTTAGCACACCTTCAAGACCTGGCAAAGATGATAAGAGAGTATGAACAGGTCATCATTGAAGATCGT
ATAGAAAAGGAGAGGAGCAAGAAGAGGTAAAACAGGATCTCTTGAATTAAGAGCGTTATAAAGCTCCAGGCC
TGGTGGCGAGGCACTATGATACGGAGAGAAATTGGTGGTTTCAAGATGCCTAAAGACAAAGTTGATAGCAAGGAT
TCAAAAGGCAAGGTAAAGGCAAGGATAAGAGGAGAGGCAAGAAGAAGTGACCAAGTTCTCTTTTGTGTTTCTG
CTGGTATTCTGGAGGTGGGAAGGACTTGGAGAGAGTTAAGAAACACCTGGTACCTCAAAGATGACTCATCTACAG
GTTGTTTCTTATTGAGACTTTCCAGGGAAGCCTGATTTCACTTTGCCTGTTAATTTCACTCTGCCCTGTAGGTG
GGTTTTCAAACCTGATTTAGGATTACACATTGACTTAGGGCTTCCTCATACCTTGCTGGGAAGAAGTTCTAG
TAGTCTGTGAAGATTCACTTCTTCTGCTCTTTCTCAGCAGAACAAAGGAGTTCAGTGGCTTAGCTACAGTGACG
CATTGAACTTGAGTAATTCCTGTAATGTCAGATTTTGATTTTACCCAATTTGTCTGTAGTGAAAAAACTCTTAT
GAGCAAAAGTATTAGTAGGAATTACAATATGATGTTATTAGCTGTCCAGCATAATATATACACAGCAAAGTTT
AATAAATGTTGGTTCCTGCCTGCCTTTTAAA

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FIGURE 1334

MEEDSLEDNLFPKVHSEMTVSATGEPPSAVEEEGIPNETDIEIMPEIPETLEPLSLPDVLRISAVLEDITDQL
FILNYIMPVQYDGRQSIKVSRELNLEGTNLDKGLAMGLNMTKILSPLLPVEGPNLPDFTPRGRFAVEFNKMQDLV
FKKPTRQTIMTTETLKKIHIDRQFFSDVIADTIKELQDSATYNSLLQALSKERENKMHFYDIIAREEKGRKQIIS
LQKQLINVKKEWQFEVQSQNEYIANLKDQLQEMKAKSNLENRYMKTNTTELQIAQTQKKCNRTTEELLVEDFEKLRM
KTEEEARTHTEIEMFLRKEQQKLEERLEFWMEKYDKDTEMKQNELNALKATKASVLAHLQDLAKMIREYEQVIIE
DRIEKERSKKKVKQDLLELKSIVKLQAWWRGTMIIRREIGGFKMPKDKVDSKDSKGGKGGKDKRRGKKK

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FIGURE 1335

GTCATGTTCTTCGCGCCCTGGTGTGGACACTGCCAGCGGCTGCAGCCGACTTGGAATGACCTGGGAGACAAATAC
AACAGC**AT**GGAAGATGCCAAAGTCTATGTGGCTAAAGTGGACTGCACGGCCCACTCCGACGTGTGCTCCGCCCAG
GGGGTGCAGGATACCCACCTTAAAGCTTTTCAAGCCAGGCCAAGAAGCTGTGAAGTACCAGGGTCTTCGGGAC
TTCCAGACACTGGAAAAGTGGATGCTGCAGACACTGAACGAGGAGCCAGTGACACCAGAGCCGGAAGTGAACCG
CCCAGTCCCCCGAGCTCAAGCAAGGGCTGTATGAGCTCTCAGCAAGCAACTTTGAGCTGCACGTTGCACAAGGC
GACCACTTTATCAAGTTCTTCGCTCCGTGGTGTGGTCACTGCAAAGCCCTGGCTCCAACCTGGGAGCAGCTGGCT
CTGGGCCCTTGAACATTCCGAAAGTGTCAAGATTGGCAAGGTTGATTGTACACAGCACTATGAACCTGCTCCGGA
AACCAGGTTCTGGCTATCCCACTCTTCTCTGGTTCCGAGATGGGAAAAAGGTGGATCAGTACAAGGGAAAGCGG
GATTTGGAGTCACTGAGGGAGTACGTGGAGTCGCAGCTGCAGCGCACAGAGACTGGAGCGACGGAGACCGTCACG
CCCTCAGAGGCCCCGGTGTGGCAGCTGAGCCCGAGGCTGACAAGGGCACTGTGTTGGCACTCACTGAAAATAAC
TTCGATGACACCATTGCAGAAGGAATAACCTTCATCAAGTTTTATGCTCCATGGTGTGGTCACTGTAAAGACTCTG
GCTCCTACTTGGGAGGAAGTCTCTAAAAAGGAATTCCCTGGTCTGGCGGGGGTCAAGATCGCCGAAGTAGACTGC
ACTGCTGAACGGAATATCTGCAGCAAGTATTCGGTACGAGGCTACCCACGTTATTGCTTTTCCGAGGAGGGAAG
AAAGTCAGTGAGCACAGTGGAGGCAGAGACCTTGACTCGTTACACCGCTTTGCTCTGAGCCAAGCGAAAGACGAA
CTTT**AG**GGAACACAGTTGGAGGTCACCTCTCCTGCCAGCTCCCGCACCTGCGTTTAGGAGTTCAGTCCACAGA
GGCCACTGGGTTCCCACTGGTGGCTGTTTCAGAAAGCAGAACATACTAAGCGTGAGGTATCTTCTTGTGTGTGTG
TTTTCCAAGCCAACACACTCTACAGATTCTTTATTAATGTGTAACCTCATGGTCACTGTGTAAACATTTTCAGTG
GCGATATATCCCTTTGACCTTCTCTTGATGAAATTTACATGGTTTCCTTTGAGACTAAAATAGCGTTGAGGGAA
ATGAAATTGCTGACTATTTGTGGCTCCTGAGTTGAGTGATTTTGGTGAAAGAAAGCACATCCAAAGCATAGTTT
ACCTGCCACGAGTTCTGGAAAGGTGGCCTTGTGGCAGTATTGACGTTCTCTGATCTTAAGGTCACAGTTGACT
CAATACTGTGTTGGTCCGTAGCATGGAGCAGATTGAAATGCAAAAACCCACACCTCTGGAAGATACCTTCACGGC
CGCTGCTGGAGCTTCTGTTGCTGTGAATACTTCTCTCAGTGTGAGAGGTTAGCCGTGATGAAAGCAGCGTTACTT
CTGACCGTGCTGAGTAAGAGAATGCTGATGCCATAACTTTATGTGTGATACTTGTCAAATCAGTTACTGTTCA
GGGGATCCTTCTGTTTCTCACGGGGTGAACATGTCTTTAGTTCTCATGTTAACACGAAGCCAGAGCCACATG
AACTGTTGGATGTCTTCTTAGAAAGGGTAGGCATGGAAAATTCCACGAGGCTCATTCTCAGTATCTCATTAACT
CATTGAAAGATTCCAGTTGTATTTGTACCTGGGGTGACAAGACCAGACAGGCTTTCCAGGCCTGGGTATCCAG
GGAGGCTCTGCAGCCCTGCTGAAGGGCCCTAACTAGAGTTCTAGAGTTTCTGATTCTGTTTCTCAGTAGTCCTTT
TAGAGGCTTGTATACTTGGTCTGCTTCAAGGAGGTCGACCTTCTAATGTATGAAGAATGGGATGCATTTGATCT
CAAGACCAAAGACAGATGTCAAGTGGGCTGCTCTGCCCCCTGGTGTGCACGGCTGTGGCAGCTGTTGATGCCAGTGT
CCTCTAACTCATGCTGTCTTGTGATTAAACACCTCTATCTCCCTTGGGAATAAGCACATACAGGCTTAAGCTCT
AAGATAGATAGGTGTTTGTCTTTTACCATCGAGCTACTTCCCATATAAACCCTTTGCATCCAACACTCTTCAC
CCACCTCCCATACGCAAGGGGATGTGGATACTTGGCCCAAAGTAACTGGTGGTAGGAATCTTAGAAACAAGACCA
CTTATACTGTCTGTCTGAGGCAGAAGATAACAGCAGCATCTCGACCAGCCTCTGCCTTAAAGGAAATCTTTATTA
ATCACGTATGGTTCACAGATAATTCTTTTTTTAAAAAACCCTCCTAGAGAAGCACAACTGTCAAGAGTCT
TGACACACAACCTTCAGCTTTGCATCACGAGTCTTGATTCCAAGAAAATCAAAGTGGTACAATTTGTTTGTGTTA
CACTATGATACTTTCTAAATAAACTCTTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAC

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FIGURE 1336

MEDAKVYVAKVDCTAHSDVCSAQGVRGYPTLKLFPKPGQEAVKYQGPRDFQTLNWMLOTLNEEPVTPEPEVEPPS
APELKQGLYELSASNFEHVAQGDHFIFKFFAPWCGHCKALAPTWEQLALGLEHSETVKIGKVDCTQHYELCSGNQ
VRGYPTLLWFRDGKKVDQYKGKRDLESLREYVESQLQRTETGATETVTPSEAPVLAAEPEADKGTVLALTENNFD
DTIAEGITFIKFYAPWCGHCKTLAPTWEELSKKEFPGLAGVKIAEVDCTAERNICKYSVRGYPTLLLFRGGKKV
SEHSGGRDLDLHFRVLSQAKDEL